B I O G R A P H Y

General - Education - Teaching - Research - Extension - Administration

Dr. Velu RAJESH KANNAN

Professor & Head, Department of Microbiology
Director, Council for College and Curriculum Development
Member Syndicate, Senate & Standing Committee on Academic Affairs

BHARATHIDASAN UNIVERSITY
Tiruchirappalli - 620 024, Tamil Nadu, India

(Updated on July 27th, 2024)

General

- Name ……..…… : Dr. Velu RAJESH KANNAN
- Designation ……..…… : Professor & Head
- Office Address……..…… : Department of Microbiology
  School of Life Sciences
  Bharathidasan University
  Tiruchirappalli – 620 024
  Tamil Nadu, India.
  Contact Number: +91-9443793036/9698770070
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  Website: https://www.bdu.ac.in/schools/life-sciences/microbiology/docs/faculty/dr-v-rajesh-kannan.pdf
- Additional Responsibility……. : Director In-Charge,
  Council for College and Curriculum Development
  : Member Syndicate, Senate & SCAA, BDU
- Date of Birth …… : 22.02.1975
- Gender……..…… : Male
- Blood Group…….. : $A1^{+ve}$
- Place of Birth…… : Karukkathi, Ramanathapuram-District, Tamil Nadu
- Permanent Address……... : Karukkathi, Komboothi - Post
  Kilakkarai - Via & Taluk
  Ramanathapuram - District
  Tamil Nadu, India.
  Pin Code - 623 517,
- Residential Address…….. : No. 6, Velavan Street,
  Kurinji Nagar West, K.K. Nagar
  Tiruchirappalli – 620 021
  Tamil Nadu, India.
  Pin Code – 620 024.

Education

Primary Education

- ❖ 1st-5th Primary Standards…….. :Thiruppullani Panchayat Union Middle School, Velanoor, Ramanathapuram-District.TN
- ❖ 6th-12th Primary & Secondary Standards. : St. Joseph's Higher Secondary School, Manapad, Tuticorin-District. Tamil Nadu

Higher Education

Degree	Passing Year	Subject	Name of the University
❖ B.Sc.	1995	Botany ……	Madurai Kamaraj University, Madurai, TN
❖ M.Sc.	1998	Plant Science …….	Bharathiar University, Coimbatore, TN
❖ Ph.D.	2003	Botany…… (Microbiology)	Bharathiar University, Coimbatore, TN
❖ M.A.	2004	Tamil…..……	Annamalai University, Chidambaram, TN
❖ BGL	2023	Law……..…..	Annamalai University, Chidambaram, TN

Experience

Regular Position of Employment: 18 Years & 9 Months

Position	Institution & Place	From	To
❖ Professor & Head……..……..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	05.09.2022	Till Date
❖ Professor ……..…..……..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	04.08.2022	04.09.2022
❖ Professor & Head……..……..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	04.08.2020	03.08.2022
❖ Associate Professor & Head..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	01.07.2019	03.08.2020
❖ Associate Professor……..…..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	04.08.2017	30.06.2019
❖ Assistant Professor……..……..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	01.01.2006	03.08.2017

❖ Lecturer ….……..…..…..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	04.08.2005	31.12.2005

Teaching Experience

❖ 18 Years & 9 months: Master of Science & Philosophy and Doctor of Philosophy (Microbiology: Five Years Integrated Life Sciences & Biotechnology); Bharathidasan University, Tiruchirappalli – 620 024.

Research Experience (25 Years & 5 Months)

Position	Institution & Place	From	To
❖ Professor & Head……..……..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	05.09.2022	Till Date
❖ Professor ……..……..……..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	04.08.2022	04.09.2022
❖ Professor & Head……..……..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	04.08.2020	03.08.2022
❖ Associate Professor & Head….:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	01.07.2019	03.08.2020
❖ Associate Professor…….……..…:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	04.08.2017	30.06.2019
❖ Assistant Professor……..……..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	01.01.2006	03.08.2017
❖ Lecturer ….……..…..…..:	Department of Microbiology Bharathidasan University Tiruchirappalli, Tamil Nadu	04.08.2005	31.12.2005
❖ Senior Research Fellow (CSIR):	Division of Microbiology Department of Botany Bharathiar University Coimbatore, Tamil Nadu	01.08.2002	31.07.2005

❖ University Research Fellow (BU).:	Division of Microbiology Department of Botany Bharathiar University Coimbatore, Tamil Nadu	01.12.1998	30.11.2001

Contribution/Responsibility to Administration @ Bharathidasan University

- ❖ Member Syndicate, Bharathidasan University (23.12.2023 to till date).
- ❖ Senate Member, Bharathidasan University (June 2019 - 03.8.2022 & 05.9.2022 to till date).
- ❖ Director In-charge, Council for College and Curriculum Development, Bharathidasan University, Tiruchirappalli (May 2022 to till date).
- ❖ Head, Department of Microbiology, Bharathidasan University (01.7. 2019 - 03.8.2022 & 05.9.2022 to till date).
- ❖ Member of Standing Committee on Academic Affairs, Bharathidasan University (June 2019 to till date).
- ❖ Liaison Officer, Vice Chancellor Search Committee, Bharathidasan University (10.11.2020 -11.2.2021).
- ❖ Nodal Officer, PM AJAY Scheme, Bharathidasan University.
- ❖ Flying Squard Convener of Bharathidasan University Examinations to Affiliated Colleges.
- ❖ Co-ordinator, Social Justice Monitoring Committee, Bharathidasan University (12.01.2024 to till date).
- ❖ Co-Ordinator for Clean and Green Initiative, Bharathidasan University (March 2018 to March 2021).
- ❖ Co-Ordinator, Maaperum Thamizh Kanavu (The Great Tamil Dream-Government of Tamil Nadu College Students Knowledge Development Scheme), Bharathidasan University.
- ❖ Member of Research Council, Bharathidasan University (04.9.2022 to till date).
- ❖ Scrutinizing Committee member for application of Registrar, Controller of Examination and Director for CDOE, Bharathidasan University.
- ❖ Special Invitee for All Autonomous Colleges Academic Council at Affiliated to Bharathidasan University.
- ❖ Member Secretory of SC/ST Standing Committee, Bharathidasan University (July 2020 – till date).

- Coordinator for SC/ST Cell in Bharathidasan University (July 2014-March 2015).
- Coordinator for NCC Boys Unit in BDU Campus (October, 2011-March, 2012).
- Selection/Promotion Committee members in teaching/Non-teaching in Bharathidasan University.
- Bharathidasan University Representative to various Colleges Principal/Faculty members selection Committee.
- Chairperson for Inspection Commission to New Colleges on Bharathidasan University Affiliated Colleges.
- Microbiology Subject Experts of Course/Centre Affiliation Commission in Bharathidasan University Affiliated various Colleges/Institutions.
- Research Centre's Subject Experts for University Representative.
- Inspection Commission Member for CDOE Study Center to Bharathidasan University.
- Inspection Commission Member for New Colleges on BDU affiliation.
- Additional Camp Officer for Central Valuation in BDU Centre.
- Observer on behalf of Bharathidasan University Senate Election in Urumu Dhanalakshmi College, Tiruchirappalli on 29.7.2022.
- Additional Chief Superintend for Examination to various BDU Distance Education Study Centre.
- University Convocation Refreshment Committee Member (2005 to 2018).

Special Invitee for Academic Council @ Bharathidasan University Autonomous Colleges

- Thanthai Periyar Govt. Arts & Science College, Tiruchirappalli - 620 023.
- Government College for Women, Kumbakonam – 612 001.
- Kundavai Naachiyaar Government College for Women, Thanjavur- 613 007.
- Rajah Serfoji Government College, Thanjavur - 613 005.
- Dr. Kalaignar Karunanidhi Government Arts College for Women, Pudukkottai.
- Jamal Mohamed College, Tiruchirappalli – 620 020.
- Holy Cross College, Tiruchirappalli – 620 002.
- Seethalakshmi Ramaswami College, Tiruchirappalli – 620 002.
- Bishop Heber College, Tiruchirappalli – 620 017.
- National College, Tiruchirappalli – 620 001.

- ❖ St. Joseph's College, Tiruchirappalli - 620 002.
- ❖ A.V.V.M. Sri Pushpam College, Poondi – 613 503.
- ❖ Cauvery College for Women, Annamalai Nagar, Tiruchirappalli – 620 018.
- ❖ Srimad Andavan Arts & Science College, Thiruvanaikoil, Tiruchirappalli – 05.
- ❖ Dhanalakshmi Srinivasan College of Arts & Science for Women, Perambalur-12.
- ❖ Edayathangudi G.S. Pillai Arts & Science College, Nagapattinam-611 001.
- ❖ Sengamala Thayaar Educational Trust Women's College, Mannargudi – 614001.
- ❖ J.J. College of Arts & Science, Namanasamuthiram, Pudukkottai – 622 404.
- ❖ Government Arts College, Kumbakonam – 612 001.
- ❖ Nehru Memorial College, Puthanampatti.
- ❖ Thanthai Hans Rover College of Arts & Science, Perambalur.
- ❖ ADM College of Arts and Science College, Nagapattinam.
- ❖ Government Arts College, Karur.

Inspection & Review Commission Chairperson/member to New Colleges @ BDU

1. Chairperson, Global College of Arts and Science, Thiruvarur, Thiruvarur District
2. Member, ABC Arts & Science College, Aranthangi, Pudukkottai District
3. Member, CSI Bishop Solomon Duraisamy College of Arts & Science, Karur
4. Member, Annai Velankanni Arts & Science College, Velankanni
5. Member, Government Arts & Science College, Manapparai, Tiruchirappalli
6. Member, Government Arts & Science College, Thirumayam, Pudukkottai
7. Member, Government Arts & Science College, Alangudi, Pudukkottai District
8. Member, Government Arts & Science College, Bothalur, Tanjure District
9. Member, Government Arts & Science College, Koothanallur, Thiruvarur District
10. Member, Government Arts & Science College, Aravakkurichi, Karur District.
11. Member, Sri Vanchinathan college of Arts & Science, Pudukkottai
12. Al Ameen Arts & Science College, Kumbakonam.

Field of Specialization on Research

- ❖ Rhizosphere Biology
  - Rhizosphere Engineering & Management, Plant-Microbe Interactions, GM Crop Adaptation and Electricity Production through P-MFC.
- ❖ Bioremediation
  - Degradation of Agrochemicals Residuals, Plastics and Polyethylene Materials.
- ❖ Biopolymer Production cum Applications and Microplastic degradation.
- ❖ Endophytic Microorganisms Validation and Applications

On-going Research

- Crop improvement through biofertilizers & biocontrol agents' interactions.
- Electricity Production through P-MFC.
- Reduce the toxic chemicals in plant product through microbial biofertilizers.
- Improvement of bioplastics production / plastic & polyethylene material degraded through microorganisms.
- Genetically modified crop adaptation, metagenomic and quorum sensing studies in rhizosphere functioning.
- Investigation of microplastics and degradation of microplastics through probiotic competence bacteria.
- Endophytic Microorganisms Inhabitation and Drug Developments.

Research Project: On-going/Completed

1. Scheme : Major Research Project
   Position : Principal Investigator
   Funded by : DST – New Delhi, India
   Grant (Rs.) : 8,16,000/=
   Duration : 3 years (2006-2009)
   Title : Improving the production of *Ophiorrhiza mungos* L., a potential medicinal plant, through biofertilizers
   Status : Completed

2. Scheme : Major Research Project
   Position : Co-Investigator
   Funded by : CSIR-New Delhi, India
   Grant (Rs.) : 14,00,000/=
   Duration : 3 years (2006-2009)
   Title : Development of novel antimicrobial agents from endosymbionts marine actinomycetes
   Status : Completed

3. Scheme : Major Research Project
   Position : Principal Investigator
   Funded by : UGC-New Delhi, India
   Grant (Rs.) : 9,17,600/=
   Duration : 3 years (2007-2010)
   Title : Influence of seasonal patterns on the production of Camptothecin (an alkaloid) in *Ophiorrhiza mungos* L., a high-value anticancer medicinal plant
   Status : Completed

4. Scheme : Major Research Project
Position : Co-Investigator
Funded by : UGC-New Delhi, India
Grant (Rs.) : 8,55,600/=
Duration : 3 years (2007-2010)
Title : Exploitation of novel fungal and entomopathogen nematode for the control soil invading insect pests and subterranean termites
Status : Completed

5. Scheme : Major Research Project
Position : Co-Investigator
Funded by : UGC-New Delhi, India
Grant (Rs.) : 7,47,800/=
Duration : 3 years (2009-2011)
Title : Biological control of shrimp diseases using antagonistic probiotics from marine bacterial symbionts
Status : Completed

6. Scheme : Student Project
Position : Supervisor
Funded by : TNSCST, Tamil Nadu
Grant (Rs.) : 6000/=
Duration : 3 months (2011)
Title : Isolation and identification of bacteriophages from hospital effluents to treat multi drug resistant bacterial infections
Status : Completed

7. Scheme : Major Research Project
Position : Principal Investigator
Funded by : UGC-New Delhi, India
Grant (Rs.) : 11,55,800/=
Duration : 3 years (2012-2015)
Title : Development of restorative model to degrade the polyethylene waste materials through efficient microbes in domestic level
Status : Completed

8. Scheme : Major Research Project
Position : Co-Investigator
Funded by : DBT-New Delhi, India
Grant (Rs.) : 24,41,980/=
Duration : 3 years (2013-2016)
Title : Biomethanation and bioconversion of marine weeds (*Ulva* sp. and *Laminaria* sp.) under natural and halophilic condition
Status : Completed

9. Scheme : Student Project
Position : Supervisor
Funded by : TNSCST, Tamil Nadu
Grant (Rs.) : 10000/=
Duration : 3 months (2013)
Title : Elimination of seed sprouts *Salmonella* pathogens through bacteriophages - A sustainable biocontrol approaches
Status : Completed

10. Scheme : Science & Engineering Research Board
Position : Principal Investigator
Funded by : DST-New Delhi, India
Grant (Rs.) : 600000/=
Duration : one year (2014)
Title : Analysis of Glomalin (A soil Fertility Protein) Profile and Bt-Cotton Impact in Rhizosphere soil under Nursery Practices
Status : Completed

11. Scheme : Student Project ()
Position : Supervisor
Funded by : TNSCST, Tamil Nadu
Grant (Rs.) : 10000/=
Duration : 3 months (2018)
Title : Exploration of Endophytic fungi from medicinal plants in Tiruchirappalli district and their control potential against microbial pathogens
Status : Completed

12. Scheme : Major Research Project
Position : Principal Investigator
Funded by : TANSCHE, Chennai, India
Grant (Rs.) : 47,70,500/-
Duration : 3 Years (2021-2024)
Title : Improve of Polyhydroxyalkanoates (Bioplolymers) production with source of Seaweed Associated bacteria and to standardizing the applications
Status : Ongoing

13. Scheme : Major Research Project
Position : Co-Principal Investigator
Funded by : TANSCHE, Chennai, India
Grant (Rs.) : 20,27,750/-
Duration : 3 Years (2021-2024)
Title : Validation of bio active compound from marine bacteria (*Bacillus cereus*) against MCF-7 cell line: *In silico* and *in vitro* approach
Status : Ongoing

14.

Scheme	: Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)- Student Project
Position	: Principal Investigator
Funded by	: Department of Higher Education, Ministry of Education (GoI)
Grant (Rs.)	: 4,50,000/-
Duration	: 1 Year (2021-2022)
Title	: Evaluation of Dermatophytosis Prevalence and Endophytic Influence – A Systemic Antifungal agent achieving strategy.
Status	: Completed

15.

Scheme	: Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)- Student Project
Position	: Supervisor
Funded by	: Department of Higher Education, Ministry of Education (GoI)
Student Name	: R. Aishwarya
Grant (Rs.)	: Bioelectricity generation using rice plant with various types of fertilizers
Duration	: 6 Months
Title	: 24,750/=
Status	: Completed

16

Scheme	: Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)- Student Project
Position	: Supervisor
Funded by	: Department of Higher Education, Ministry of Education (GoI)
Student Name	: T. Divya
Grant (Rs.)	: 24,750/=
Duration	: 6 Months
Title	: Analysis of nano and microplastic accumulation from edible plant and its rhizosphere microorganism profile
Status	: Completed

17.

Scheme	: Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)- Student Project
Position	: Supervisor
Funded by	: Department of Higher Education, Ministry of Education (GoI)
Student Name	: A. Kamali
Grant (Rs.)	: 24,750/=
Duration	: 6 Months
Title	: Analysis of groundnut rhizosphere soil metagenomic profiles on different soil types.
Status	: Completed

18	Scheme	: Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)- Student Project
	Position	: Supervisor
	Funded by	: Department of Higher Education, Ministry of Education (GoI)
	Student Name	: S. Narmatha
	Grant (Rs.)	: 24,750/=
	Duration	: 6 Months
	Title	: Analysis of building and tree hanging plant root surface microbial communities
	Status	: Completed
19.	Scheme	: Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)- Student Project
	Position	: Supervisor
	Funded by	: Department of Higher Education, Ministry of Education (GoI)
	Student Name	: C. Thanuja
	Grant (Rs.)	: 24,750/=
	Duration	: 6 Months
	Title	: Influence of medicinal plants endophytic microbes against skin disease.
	Status	: Completed
20.	Scheme	: Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)- Student Project
	Position	: Supervisor
	Funded by	: Department of Higher Education, Ministry of Education (GoI)
	Student Name	: S. Indhumathi
	Grant (Rs.)	: 25,000/=
	Duration	: 6 Months
	Title	: Isolation and purification of anti-microbial peptides from endophytic bacteria
	Status	: Completed
21.	Scheme	: Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)- Student Project
	Position	: Supervisor
	Funded by	: Department of Higher Education, Ministry of Education (GoI)
	Student Name	: S. Saruhasan
	Grant (Rs.)	: 25,000/=
	Duration	: 6 Months
	Title	: Analysis of various container influences to producing vigorous sapling in nursery practice.
	Status	: Completed

22.	Scheme	: Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)- Student Project
	Position	: Supervisor
	Funded by	: Department of Higher Education, Ministry of Education (GoI)
	Student Name	: M. Sneka
	Grant (Rs.)	: 25,000/=
	Duration	: 6 Months
	Title	: Analysis of hydroponic rhizomicrobes and their plant growth promoting efficiency.
	Status	: Completed
23.	Scheme	: Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)- Student Project
	Position	: Supervisor
	Funded by	: Department of Higher Education, Ministry of Education (GoI)
	Student Name	: C. Swathi
	Grant (Rs.)	: 25,000/=
	Duration	: 6 Months
	Title	: Exploration of currency notes surface microorganisms and their degrading chemical causes
	Status	: Completed
24.	Scheme	: Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)- Student Project
	Position	: Supervisor
	Funded by	: Department of Higher Education, Ministry of Education (GoI)
	Student Name	: R. Yogalakshmi
	Grant (Rs.)	: 25,000/=
	Duration	: 6 Months
	Title	: Analysis of endophytic microbial diversity and metabolites profiles for wound healing by medicinal plant of *Aristolochia indica*.
	Status	: Completed

Awards/Fellowships

- University Research Fellow: Bharathiar University, Coimbatore, India.
- Senior Research Fellow: Council of Scientific and Industrial Research (CSIR), New Delhi, India.
- Young Scientist Fellow: DST – SERC Fast Track Young Scientist Scheme, New Delhi, India.
- Blood Donor Award: Rotary Club of Coimbatore, India.
- Certificate of Appreciation: Anbalayam (Non-Governmental organization), Tiruchirappalli.

- Certificate of Appreciation: Star Campaigner award (Indian Initiative for Management of Antibiotic Resistance).

Membership of Professional Body

- Indian Science Congress Association
- International Mycorrhizae Research Society
- International Plant - Microbes Interactions Association
- International Ecological Association
- Indian Association of Biomedical Scientists
- Association of Microbiologists India
- Association for Advancement of Pest Management in Horticultural Ecosystems
- The Indian Society of Soil Biology and Ecology
- Microbiologists Society, India

Academic Visits to Foreign Countries

- Malaysia
- Italy
- Vatican
- Germany
- Taiwan
- United Kingdom
- Singapore
- China

Research Students' Guidance/Supervisor

Degree	Awarded/Completed	Thesis Submitted	Synopsis Submitted	Ongoing
Post-Doctoral Fellow	1	-	-	-
Research Associate	2	-	-	-
Ph. D.	17	1	-	8
Ph.D. Co-Supervisor	2	-	-	3
M. Phil.	28	-	-	-
M. Sc.	90	-	-	-
M.Sc.-Outside Project	22	-	-	-
M.Sc.-Internship	24	-	-	-
Total	186	1	-	11

Ph. D. Guidance: 8 Nos. (On-going)

1. Ms. Shahanaz Begam: Microbiome and metabolomic profile for crop quality enhance.
2. Ms. Mukil sukitha: Electricity production through P-MFC.
3. Ms. Parvatham: Anti dermatophytes product through endophytic fungi.
4. Ms. Sumathy: Different symbiotic nature of *Rhizobium* sps.
5. Ms. Geetha: Rhizodeposits influence of *Rhizobium* symbiosis.
6. Ms. Tamilvani: Biodynamics of crop improvements.
7. Ms. Dharnika: Plant growth promoting rhizofungus.
8. Ms. A. Atchaya: Xenobiotic degradation

Ph.D. Co-Guidance: 3 Nos.

1. Mr. Suresh (Microbiology-Marine Science): Bioremediation of industrial effluents.
2. Ms. Begum (Microbiology-Biotechnology): Microalgal Taxonomy & Biotechnology.
3. Mr. Pradeep (Microbiology-Marine Science): Indian coastal pathogenic bacterial community.

Research Students Completed (Thesis/Dissertation/Project)

Ph.D.: 18 Nos.

1. **Dr. C. S. Sumathi (2010):** Development of sustainable Crop Improvement Strategies through Microbial Bioinoculants Application in Turmeric (*Curcuma longa* L.) Plantation.
2. **Dr. J. Hemapriya (2012):** Eco-friendly Approaches on Degradation and Detoxification of Textile Azo Dyes by Intuitive Bacterial Strains under Aerobic Conditions.
3. **Dr. V. Balasubramanian (2012):** Exploration of High-Density Polyethylene (HDPE) Microbial Degraders from Waste Dumping Source and Construction of a Novel Decomposing Model at Domestic Level.
4. **Dr. N. Ramesh (2012):** Prevalence of CTX-M-Type Extended-Spectrum ß-Lactamases (ESBLs) Producing Gram Negative Bacteria in Major Cities of Tamil Nadu.
5. **Dr. B. Hemambika (2013):** Exploitation of Cr^{6+} Resistant Plant Growth Promoting Bacteria for the Innovation of Phytoremediation through *Crotalaria juncea* L.
6. **Dr. E. King Solomon (2013):** Impact Assessment on *Bt* cotton in Rhizosphere Soil - Metagenomics and *in silico* Approaches.
7. **Dr. P. Rajesh (2013):** Exploration of Potential Medicinal Plants for Anti-arthritic Activity against Freund's adjuvant and *Mycobacterium butyricum* Induced Arthritis in Wister Albino Rats.
8. **Dr. K. Natarajan (2014):** Development of Tyrothricin^{+Ag} Complex from Paddy Rhizosphere Soil *Brevibacillus brevis* KN8(2) for combating *Pseudomonas aeuroginosa*.

9. **Dr. D. Nivas (2017):** Exploration and application of bacteriophage to control the bacterial spot disease caused by *Xanthomonas campestris* in *Solanum lycopersicum* L.
10. **Dr. R. Sangeetha Devi (2017):** Biodegradation of High-Density Polyethylene Using Efficient Marine Bacteria in Lab and Land Practices.
11. **Dr. A. Robert Antony (2018):** PGPR Inoculated Micronutrient Enriched Cereals Response on Hepcidin (Anaemic) and Metallothionein (Diabetic) in Mice Model - An Agromedicine Approach.
12. **Dr. K. Kannan (2018):** Analysis of PGPR Secondary Metabolites Efficiency against Bacterial Blight Disease in *Vigna unguiculata* (L.) Walp. through *In Vitro* and *In Vivo* Conditions.
13. **Dr. R. Ramya (2019):** Exploration of mcl-PHA Biopolymer from Seaweed Associative Bacteria and its Application in Agricultural and Medical Fields.
14. **Dr. S. Chandru (2019):** Quorum Sensing Approaches on Mycorrhizal Helper Bacteria: Persistence to Sunflower Crop Improvement.
15. **Dr. R. Janani (2020):** Development and Analysis of Conjugated Soil Fertility (GiHsp60) and insecticidal (Cry1Ac) Proteins Functions to Improving of Plant Production Ecofriendly Strategy.
16. **Dr. S. Nathiya (2021):** Evaluation of Agrochemical Impacts and Bioremediation Efficiency using Indigenous Plant Growth Promoting Rhizobacteria.
17. **Dr. R. Kayalvizhi: (2023):** Evaluation of Microplastics Accumulation on Agroecosystems and its Biodegradation Efficacy by Inhabitant Rhizosphere Bacteria: A Progressive Approach.
18. **Mr. V. Krishnakumar (2024):** Heterologous Expression and Characterization of *Mycobacterium tuberculosis* Serine/Threonine Kinase PknL - A Protein with Complex Domain Architecture in *Escherichia coli*. (*Thesis submitted*).

M. Phil.: 28 Nos.

1. **Ms. T. Karpagavalli (2006):** Phytochemical and Antibacterial Patterns in Traditional Health Care Plants of *Cynodon dactylon* (L.) pers. and *Azadirachta indica* A. Juss
2. **Mr. G. Stalin Rajasekar (2007):** Anti-diabetic Activity of *Terminalia chebula* Retz. Fruits on Alloxan Induced Diabetic Rats.
3. **Mr. V. Muniappan (2007):** Exploration of Antimicrobial Strategy in Certain Commercially Ornamental and High Value Medicinal Plants.
4. **Mr. M. Mathan (2008):** Screening of Phytochemical Nature in *Momordica charantia* L. Fruit to Anti-diabetic Efficacy in Albino Mice.

5. **Ms. J. Poonguzhali (2008):** Phytochemical and Antifungal Investigation of *Anacardium occidentale* using Albino Mice.
6. **Ms. M. Johncy Rani (2008):** Mitigation of Heavy Metals in Electroplating Industrial Waste by the Process of Biosorption.
7. **Ms. R. Ramalakshmi (2008):** Production and Characterization of Biopolymers (Polyhydroxy alkanoates): An Intrinsic Research.
8. **Ms. V. Sri Vidhya Lakshmi (2008):** Investigation for Promising Microorganisms to Degrade the Explosive Waste (2,4-Dinitrophenol) from Fireworks Industrial Area.
9. **Ms. R. Suganya (2008):** Inventory on Effective Microorganisms for Degradation of Organophosphate Pesticidal Residues.
10. **Ms. Josephin Edith (2009):** Efficacy of Antifungal Agents against the Aflatoxin Production from *Aspergillus flavus* in *Vigna mungo* L. and *Zea mays* L.
11. **Ms. Kuzhalini (2009):** Biochemical and Molecular Approaches to Biopolymer Producing Bacteria of *Bacillus* sp. Isolated in Sugarcane Waste Sources.
12. **Ms. S. Suganya (2009):** Studies on the Arbuscular Mycorrhizal Fungi and their Helper Bacteria Interaction through Milpa Model.
13. **Ms. P. Brundha (2010):** A Survey of Autochthonous Soil Virus Abundance in Different Area Agricultural Crops Rhizosphere
14. **Ms. K. Keerthana Gandhi (2010):** Influence on Organic Substrate in Rice Plants Growth and their Rhizosphere Microbial Profile under Nursery Conditions
15. **Ms. J. Sangeetha (2010):** Effects of AMF and PGPR on the Promotion of Maize (*Zea mays* L.) Plant Growth and the Improvement of Soil Properties under Nursery Condition.
16. **Ms. A. Balasundary (2011):** Exploration of Taxol Producing Endophytic Fungi Isolated in Anti-cancer Property Medicinal Plants.
17. **Ms. R. Kalaivani (2011):** Production and Characterization of Biopolymer from *Bacillus cereus* Isolated in Natural Sources.
18. **Ms. D. Karthika (2011):** Metaproteomic Approaches on Agrochemical Contaminated Soils with Special Reference to 2, 4-D.
19. **Ms. S. Sathiyabama (2012):** Analysis of *Azotobacter* sp. Biochemical and Molecular Diversity in Agro and Marine Environmental Soil.

20. **Ms. T. Tamilvani (2012):** Biochemical Analysis of HDPE Degradation using Efficient Microorganisms (*Enterobacter gergoviae* JF738074 and *Aspergillus terreus* JF431429).
21. **Ms. S. Vasumathi (2012):** Physico-chemical and Microbiological Analysis of various Drinking Water Sources in Bharathidasan University, Palkalai Perur campus.
22. **Mr. K. Kannan (2013):** Plant Growth Promoting Rhizobacterial Efficacy in *Vigna unguiculata* (L.) Walp.
23. **Ms. S. Vanaroja (2013):** Biocontrol Approach on Tikka Disease through Groundnut (*Arachis hypogaea* L.) Rhizosphere Bacterial Secondary Metabolites.
24. **Ms. D. Gomathi (2014):** Bt-Cotton Impact on Soil Fertility Protein (Glomalin) Levels in Rhizosphere Region under Nursery Practice.
25. **Ms. C. Mahalakshmi (2014):** Efficacy of Agrochemicals Tolerant Bioinoculants on Black Gram (*Vigna mungo* L. Hepper) Growth in Nursery Trails.
26. **Ms. P. Thamizharasi (2014):** Analysis of Biocontrol Efficiency against *Fusarium* spp. through *in vivo* and *in vitro* Conditions.
27. **Mr. A. Manikandan (2015):** Bioremediation of Triclosan through Intrinsic Bacteria from Cosmetics Substance Expulsion Environmental Sites.
28. **Ms. R. Ramya (2015):** Standardization of Biopolymer Production from Seaweed Associated Bacteria.

M. Sc.: 90 Nos.

1. **Ms. P. Niraimathi. (2007): Biotechnology in Life Sciences:** Studies on Favorable Colonization and Localized Corrosion of AISI type304 Stainless Steel by Manganese Oxidizing Bacteria.
2. **Ms. M. Priyadharsini. (2009): Microbiology:** Comparative Study on the Isolation, Screening and Identification of Microflora Associated with Gut and Gills of Exotic Larvivorous fishes, *Gambusia affinis* (Baird and Girard) and *Poecilia* (Lebistes) Reticulate (Peters).
3. **Mr. M. Martin Xavier. (2009): Microbiology:** Influence of Agrochemicals and Biofertilizer Applications for AM Fungal Association in Maize (*Zea mays* L.) Plants under Field and Nursery Conditions.
4. **Mr. K. Sheik Mohammed Iqbal. (2009): Microbiology:** Inventory on Keratinase Production and Feather Degradation Potential of Tannery Wastes Bacterial Isolates.
5. **Mr. J. Sivalingam. (2009): Microbiology:** Detection of *ctxA* Gene in *Vibrio cholerae* Isolated from Clinical Samples and Environmental Sources, Puducherry.

6. **Mr. C. Manivannan. (2010): Life Sciences:** Research Principles and Basic Methodology involved in Case-Control Study in Neuroscience Research.
7. **Ms. M. Devi. (2010): Microbiology:** Improvement of Soil Fertility through Various Agro Inputs on Response in Cover Crop of *Crotalaria Juncea* L.
8. **Ms. P. Ilamathy. (2010): Microbiology:** Drug Susceptibility profile of *Salmonella typhi* Isolates from Puducherry.
9. **Ms. A. Balasundary. (2010): Microbiology:** Comparative Study on Biodegradation of Organo chlorine Pesticide by Mangrove and Terrestrial Fungi.
10. **Ms. B. Priyadurga. (2010): Microbiology:** Survey of Rhizosphere Soil Fertility Proteins (Glomalin) status in Regional Crops.
11. **Ms. W. Akshaya Blessy. (2011): Life Sciences***:* Cloning, Over Expression and Purification of dihydrofolate reductase (DHFR) Gene of *Mycobacterium tuberculosis* H37RV.
12. **Ms. R. Divya Metha. (2011): Microbiology:** Isolation, Screening of Xylanolytic Microorganisms from the Forest Litter Soil and Xylanase Production through Solid State and Submerged Fermentation.
13. **Ms. D. Manju. (2011): Microbiology:** Isolation, Identification and Characterization of Mosquitocidal Bacteria from Soil.
14. **Mr. D. Nivas. (2011): Microbiology:** Isolation and Partial Characterization of Bacteriophages from Hospital Effluent to Treat MDR and ESBL Producing Gram positive and Gram-negative Clinical Isolates.
15. **Ms. T. Tamilvani. (2011): Microbiology***:* Defluoridation of Contaminated Water and Soil by Native Fungal Isolates.
16. **Ms. M. Vinithra. (2012): Life Sciences:** Standardization of a Biosensor for the Detection of Phenolic Compounds using *cotA* Gene by rDNA Technology.
17. **Ms. V. Abirami. (2012): Microbiology***:* Biodegradation of Endosulfan by using Efficient Microbial Strains from Contaminated Area.
18. **Ms. K. Anitha. (2012): Microbiology***:* Determination of Actinomycetes Proteolytic Enzyme against Human Pathogenic Bacteria.
19. **Ms. S. Anu. (2012): Microbiology***:* Exploration of Dye Degradation Laccase Enzyme from White Rot Fungi.
20. **Mr. G. Arunkumar. (2012): Microbiology***:* Exploration of Endophytic Microorganisms from Selected Medicinal Plants and their Control Potential to Multi Drug Resistant Pathogens.
21. **Ms. R. Vijaya Abinaya. (2012): Microbiology***:* Exploration of Polyhydroxy Alkanoates Production from Rubber Plant Rhizosphere Soil Bacteria.
22. **Ms. V. Akila. (2013): Microbiology:** Elimination of Seed Sprouts *Salmonella* Pathogen through Bacteriophage – A Sustainable Biocontrol Approach.

23. **Ms. N. Gayathri. (2013): Microbiology:** Biodegradation of Animal Hair Keratin by Keratinolytic Bacterial Isolates from Tannery Waste.

24. **Ms. T. Ishwarya. (2013): Microbiology:** Biochemical and Restriction Fragment Length Polymorphism Analysis on Mono and Dicot Plants Rhizosphere Profile.

25. **Ms. S. Kalaivani. (2013): Microbiology:** Analysis of Glomalin Protein Levels Variation in Different Crops and Adapting Rhizosphere Soils.

26. **Ms. M. Shobana. (2013): Microbiology:** An Investigation of Potential Biosurfactant Synthesizing Bacteria in Fuel Contaminated Soils.

27. **Ms. N. Sithara. (2013): Microbiology:** Comparative Analysis of Leghaemoglobin Concentration in Various Nodulating Plants and Intuitive *Rhizobium* Species.

28. **Ms. R. Akshaya. (2014): Life Sciences:** Isolation, Screening and Characterization of Xylanase from Mycological Source.

29. **Ms. P. Chitra. (2014): Microbiology:** Sequencing and Characterization of Albumin Protein in Earthworm (*Eudrilus eugeniae*).

30. **Ms. R. Durgadevi. (2014): Microbiology:** Isolation and Characterization of Zn Tolerant Plant Growth Promoting Rhizobacteria from Heavy Metal Contaminated Soils.

31. Ms. S. Ragasudha. (2014): Microbiology: Estimation of Glomalin Levels and its Cu Detoxification Ability in Industrial Contaminated Area Soil.

32. Ms. S. Ramya. (2014): Microbiology: Biodegradation of Organo- phosphorous Pesticides by Soil Bacteria.

33. Ms. Nasreen Banu (2015): Microbiology: Risk Assessment of Plastic Packed Warmth Food and Analysis of Plastic Degradation Efficiency through Bacterial Isolates.

34. Ms. Saranya (2015): Microbiology: Influence of PGPR Supplementary Calcium on Tomato Plant Growth Promotion.

35. Ms. Sariyala (2015): Microbiology: Exploration of Suitable Bacteriophage to Controlling Bacterial Cancer Incidence in Tomato Leaves.

36. Ms. Revathy (2015): Life Sciences: Studies on Management of Salt Stress by Microbial Intervention in Tomato.

37. Ms. T. Kasthuri (2016): Microbiology: Studies on Bacterial Metabolites Associated with Biodegradation of High-Density Polyethylene

38. Mr. S. Mugamadhu Rabeek (2016): Microbiology: Anti-biofilm Potential of Bacteriophage Cocktail in Methicillin Resistant *Staphylococcus aureus* by *in situ* Applications

39. Mr. P. Praveen Xavier (2016): Microbiology: Analysis of Biofertilizers Application Impact in Cowpea Growth and Rhizosphere Profiles.

40. Ms. R. Anitha (2017): Life Sciences: Synthesis, Characterization and Antimicrobial Action of Reduced Graphene Oxide Silver Nanocomposite (rGO-Ag-N).
41. Ms. K. Akila (2017): Microbiology: Evaluation of Plastic Degrading Marine Bacterial (*Bacillus aryabhattai* VRKPV15 and *Bacillus cereus* VRKPK25) Probiotic Properties through *in vitro* Condition
42. Ms. D. Dharani (2017): Microbiology: Analysis of *Bacillus thuringiensis* Bacteriocin Efficacy against Bacterial Blight Disease Causative Agent of *Xanthomonas* Sp. in Cowpea.
43. Ms. V. Madhubala (2017): Microbiology: Analysis of Biopolymer Efficiency against Bacterial Blight Disease in Cowpea under Nursery Experiment.
44. Mr. R. Mariya Kannan (2017): Microbiology: Investigation of HDPE Biodegradation Efficiency with Reference to Marine Fungus (*Aspergillus tubigensis* VRKPT1 & *Aspergillus flavus* VRKPT2).
45. Ms. S. Kaleeswari (2017): Microbiology: Evaluation of *Pseudomonas aeruginosa* VRKK1 Pyocyanin Efficacy against Bacterial Blight Disease (*Xanthomonas* Sp.) in Cowpea (*Vigna unguiculata* L.).
46. Ms. S. Paandi Selvi (2017): Microbiology: Evaluation of Physical and Chemical Mutagens Effect on Plant Growth Promoting Rhizobacterial Character.
47. Ms. K. Anushiya (2018): Microbiology: Seaweeds bioactive compound extractions and their biopotential properties
48. Ms. M. Krishna Priya (2018): Microbiology: Isolation, identification and comparative *in silico* analysis of phytase (*phya*) gene from plant growth promoting rhizobacteria
49. Mr. N. Naveen Kumar (2018): Microbiology: Enhance the biodegradation efficiency of coal tar carbazole compound
50. Ms. N. Shibinaya (2018): Microbiology: *Rhizobium* and nodule secondary metabolites to control *Fusarium* wilt in cowpea (*Vigna unguiculata* L.). A confirmation study of PGPR as biocontrol agent
51. Ms. K. Sivaranjitha (2018): Microbiology: Analysis of pesticide impact in *Trigonella foenum-graecum* (Fenugreek leaves) cultivation field and it's overcome through plant growth promoting rhizobacteria application
52. Ms. S. Swetha (2018): Microbiology: Exploration of endophytic fungi from medicinal plants in Tiruchirappalli district and their controlling potentials against microbial pathogens
53. Ms. M. Umamaheswari (2018): Microbiology: Analysis of rhizodeposits from cowpea plant using biochemical and analytical methods
54. Ms. R. Yoga Priya (2018): Microbiology: Effects of soil biostimulants activated PGPR on the growth of *Zea mays* L.
55. Ms. S. Amina (2019): Microbiology: Authentication of Generating Electricity from Rice Plants Rhizodeposits Through Microbial Fuel Cells.

56. Ms. C. Hamshini (2019): Microbiology: Analysis of Packing Materials Impact on Fertile Soils Under *In vitro* and *in vivo* Conditions.
57. Ms. R. Ragaranjani (2019): Microbiology: Exploration of Microplastic Accumulation Confirmation in Marine Fishes Gut System.
58. Ms. A. Gnanasoundarya (2019): Microbiology: Bacterial Supplementary Phytoremediation for Effective Degradation to Industrial Effluents.
59. Mr. V. Kanthasamy (2019): Life Sciences: Liquid Chromatography and Mass Spectrometric Method Development for the Separation of Bio-active Compound from Marine Flora.
60. Ms. R. Kavimozhi (2019): Life Sciences: Diversity of Bacteria in Waste Digester Enhancing Degradation of Kitchen Waste.
61. Mr. S.Gunasekaran (2020): Microbiology: Biosynthesis of Cyano-Polymers : Intracellular and Extracellular Polymeric Substances - An Insight to their Production and Characterization
62. Mr. T. Naveen (2020): Microbiology: Confirmation of probiotic properties efficiency in selected plastic degrading bacteria (Bacillus aryabhattai VRKPV15 and Bacillus cereus VRKPK25) through *in vitro* and *in vivo* condition.
63. Ms.Ramya (2020): Microbiology: Analysis of Quorum sensing signaling coordination Molecular level among plant growth Promoting Rhizobacteria.
64. Ms. Roshini Peter (2020): Microbiology: Authentication of Microplastic Accumulation in Regular Consuming and Locally Available Markets Fruits and Vegetables – A Pragmatic research.
65. Ms. A. Atsaya (2021): Microbiology: Plant Growth Promoting Rhizobacteria to Enhance the Soil Fertility through Phytoremediation Process.
66. Ms. M. Dharani (2021): Microbiology: Sandal Rhizosphere Microbiome and Metabolomics.
67. Ms. RR. Dharanika (2021): Microbiology: Analysis of Aspergillus sp. Plant Growth Promoting Properties and Perform through Nursery Experiment.
68. Ms. R. Gowri (2021): Microbiology: Existing of Microorganisms and Microplastics in various water source – As a Prospective Entail Analysis.
69. Ms. B. Sasirekha (2022): Microbiology: Root nodulating plants growth promoting efficiency through native potential PGPR strains.
70. Ms. R. Rukkumani (2022): Microbiology: Analysis of skin disease curing endophytic plant and its microbial and chemical diversity.
71. Ms. G. Kavya (2022): Microbiology: Larvicidal activity of secondary metabolite produced by endophytic fungi isolated from *Andrographis paniculate* and *Vitex negundo* on *Anopheles stephensi* and *Aedes aegypti*.
72. Ms. G. Sai Kavya Sree (2022): Microbiology: Inhibitory potential of Kunitz and Bowman Birk inhibitors from wild-relatives of Pigeonpea on midgut proteases of Lepidopteran pests.

73. Mr. C. Deenadhayalan (2022): Microbiology: Impact of helminth infections on iron related parameters in anemic individuals.
74. Ms. S. Pandeeswari (2022): Microbiology: Influence of helminth infections on iron related parameters in anemic individuals.
75. Ms. Aishwarya (2023): Microbiology: Assessment of Fertilizers application to electricity generation on *Oryza sativa* L. Rhizosphere.
76. Ms. Divya (2023): Microbiology: Investigation of Micro and Nanoplastics Accumulation in Edible Plant and its Rhizosphere Microorganism Profile.
77. Ms. Kamali (2023): Microbiology: Relational Analysis of *Arachis hypogaea* L. Rhizosphere soils Metagenomic profiles.
78. Mr. K. Karnan (2023): Microbiology: Isolation and Bioprospecting of Marine Actinobacterial for Anti-infective Properties.
79. Ms. Narmatha (2023): Microbiology: Registering microflora incidence on Building and Tree Hanging Plants Rhizoplane
80. Ms. Ragavi (2023): Microbiology: Analysis of Microbial Diversity occurrence in Plant Galls.
81. Ms. Thanuja (2023): Microbiology: Analysis of Medicinal Plants Property and its influences to Endophytic microbial diversity with reference against skin disease.
82. Ms. K. Gokila Priyavarthini (2023): Life Sciences: *In silico* Analysis of Potential Bioactive Compound Against Dermatophytic Fungi from Medicinal Plant Endophytic Actinomycetes.
83. Ms. KU. Anvitha (2023): Life Sciences: Towards Functional Characterization of TRM10 Gene in *Saccharomyces cerevisiae* and *Arabidopsis thaliana*.
84. Mr. S. Saruhasan (2024): Microbiology: Standardization of Various Containers for Quality Sapling Production through Nursery Practices.
85. Ms. M. Sneka (2024): Microbiology: Analysis of Hydroponic Rhizomicrobes and their Plant Growth Promoting Competence.
86. Ms. C. Swathi (2024): Microbiology: Exploration of Indian currency notes surface microorganisms and their degrading fortuitous.
87. Ms. R. Vidhyasri (2024): Microbiology: Rare Earth elements indicating microorganisms and their characterization.
88. Ms. R. Yogalakshmi (2024): Microbiology: Investigation of Endophytic Fungal Diversity in Aristolochia indica and to drives Silver Nanoparticles for Effective Wound Healing.

Honorary Position on Academic Events

- Advisory Board Member (May, 10-19 & 23-31, 2006): In national workshop on molecular techniques. Bharathidasan University, Biomedical laboratory, Business Development Centre, Tiruchirappalli, Tamil Nadu India.

- Convener (January 23-27, 2007): In International conference on Biotechnological Approaches in Bioresources Management (ICBABM-07), Department of Biotechnology, Bharathidasan University, Tamil Nadu, India.
- Advisory Board Member (February 12-26, 2007): In national workshop on molecular techniques. Bharathidasan University, Biomedical laboratory, Business Development Centre, Tiruchirappalli, Tamil Nadu India.
- National Organizing Committee Member. (February 08-09, 2007): National Conference on Recent Trends in Biosciences (NCRTB - 07); Biosciences, Annai College of Arts & Science, Kumbakonam.
- Organizing Secretary (January 03-05, 2008): National symposium on current scenario in microbial technology (NSCSMT-08), Department of Microbiology, Bharathidasan University, Tiruchirappalli – 24.
- Session Chairperson: National Symposium on Herbal Drug Research, Department of Botany, Bharathiar University, Coimbatore – 641 046 (September 25 & 26, 2008).
- Judge for Poster Presentation: Current issues for Sustainable Research and Innovation in Microbial Biotechnology (1-4 December 2009), in International Congress of Malaysian Society for Microbiology, Parkroyal Penang Hotel, Malaysia.
- Convener (February 9-12, 2010): In International conference on Climate Change in Bioresources Management, Department of Biotechnology, Bharathidasan University, Tamil Nadu, India.
- International Advisory Committee Member. International Symposium of Materials on Regenerative Medicine to be held November 3-5, 2010 in Zhunan, Taiwan, ROC.
- Organizing Secretary (February 27 & 28, 2012): National Conference on Microbiological Research in 21st Century (NCOMRIT-12), Department of Microbiology, Bharathidasan University, Tiruchirappalli – 24.
- International Advisory Committee Member. International Symposium of Materials on Regenerative Medicine to be held August 29-31, 2012, Taipei, Taiwan, ROC.
- Local Advisory members. Indian Initiative for management of Antibiotic Resistance (IIMAR), Tiruchirappalli.
- International Advisory Committee Member in International conference on World Congress on Preventive and Regenerative Medicine (WCPRM-2014), Taiwan held at November 4 -7 2014, organized by Chientan Youth Activity center, Taipei, Taiwan.
- Session Moderator in International conference on World Congress on Preventive and Regenerative Medicine (WCPRM-2014), Taiwan held at November 4-7 2014, organized by Chientan Youth Activity center, Taipei, Taiwan.

- Co-ordinator on Science Academies' Lecture Workshop on "Current Scenario in Microbiology and Biotechnology" 17th and 18th of July 2018, Department of Microbiology, Bharathidasan University, Tiruchirappalli – 620 024.
- Co-ordinator, Initiated an Antibiotic Resistance Awareness Programme in Bharathidasan University Campuses on 09.12.2018, Department of Microbiology, Bharathidasan University, Tiruchirappalli.
- Co-ordinator, Initiated an Antibiotic Resistance Awareness Programme in Bharathidasan University Campuses on 11.12.2019, Department of Microbiology, Bharathidasan University, Tiruchirappalli.
- Convener, International E-Conference on Cyanobacterial and Algal Biotechnology (CAB '2020) 2020 held at the Department of Microbiology, Bharathidasan University, Tiruchirappalli-620 024 during December, 18 & 20th, 2020.
- Convener, National Workshop on Molecular Techniques in Taxonomy to Biotechnology of Actinobacteria and Cyanobacteria held at Dept. of Microbiology, Bharathidasan University, during March 8 - 10, 2022, (supported by Rashtriya Uchchatar Shiksha Abhiyan (RUSA), New Delhi 110067).
- Convener, Entrepreneurship programme on Oyster mushroom farming for the empowerment of rural populations, March 24th-25th, 2022 (Supported by DST-PURSE programme-II Phase Grant).
- Convener, National Seminar on Future of Algal Biotechnology (FAB – 2022) organized by the Department of Microbiology, Bharathidasan University, Tiruchirappalli in Association with Microbiologist Society, India (MBSI), Tamil Nadu, India on June18th2022.
- Convener, International Conference on Microbiome and Synthetic Biology (ICMSB 22) in association with Society of Chemical and Synthetic Biology organized by the Department of Microbiology, Bharathidasan University, Tiruchirappalli during September 22-23rd, 2022,
- Advisory committee member, XLVI Indian Social Science Congress during 27 – 31, January 2023.
- Organising Secretary: International Conference on Microbiological Research: Current Challenges and Future Perspectives (ICMR:CCFP-2024), jointly with Microbiologists Society India. Department of Microbiology, Bharathidasan University, Tiruchirappalli during January 9th to 11th, 2024.

Academic Meeting Organized

- Organized a Special Lecture on "Tissue Engineering of Articular Cartilage" Delivered by Prof. Feng-Huien Lin, Institute of Biomedical Engineering, National Taiwan University, Director in National Health Research Institute, Taiwan.

- Organized a National Symposium on Current Scenario in Microbial Technology (NSCSMT-08), Department of Microbiology, Bharathidasan University, Tiruchirappalli – 620 024.
- Organized a National Conference on Microbiological Research in 21st Century (NCOMRIT-12), Department of Microbiology, Bharathidasan University, Tiruchirappalli – 620 024.
- Organized a Special Lecture on Antimicrobial Resistance Delivered by Prof. Bulent Bozdogan, Adnan Menderes University, 09100 AYDIN, Turkey.
- Organized a Special Lecture on Development of Humanized Mouse Model for Malaria Research", delivered by Dr. Anburaj Amaladoss, Research Scientist, Temasek Polytechnic, Singapore 529757.
- Co-ordinator: Initiated an Antibiotic Resistance Awareness Programme among Doctors, Pharmacist and Common People through pamphlet distribution in Bharathidasan University Campuses and Tiruchirappalli Corporation areas on 15.11.2017, Department of Microbiology, Bharathidasan University, Tiruchirappalli joint with Indian Initiative for Management of Antibiotic Resistance, Ujjaini.
- Organized a Special Lecture on "Publication Phishing" Delivered by Dr. Murugain Senthilvelan, School of Physics, Bharathidasan University, Tiruchirappalli – 620 024.
- Organized a Special Lecture on "Memory Development" Delivered by Dr. Ayan Raj, Department of Microbiology, Bharathidasan University, Tiruchirappalli – 620 024.
- Co-ordinator on Science Academies' Lecture Workshop on "Current Scenario in Microbiology and Biotechnology" 17th and 18th of July 2018, Department of Microbiology, Bharathidasan University, Tiruchirappalli – 620 024.
- Co-ordinator: Initiated an Antibiotic Resistance Awareness Programme in Bharathidasan University Campuses on 09.12.2018, Department of Microbiology, Bharathidasan University, Tiruchirappalli.
- Co-ordinator: Initiated an Antibiotic Resistance Awareness Programme in Bharathidasan University Campuses on 11.12.2019, Department of Microbiology, Bharathidasan University, Tiruchirappalli.
- **Organising Secretary:** International Conference on Microbiological Research: Current Challenges and Future Perspectives (ICMR:CCFP-2024), jointly with Microbiologists Society India. Department of Microbiology, Bharathidasan University, Tiruchirappalli during January 9th to 11th, 2024.

Board of Studies

- ❖ Chairperson, Board of Studies of Microbiology (B.Sc. & M.Sc. Courses, 01.10. 2021 to 30.09.2024), Bharathidasan University Affiliated Colleges (Non-autonomous).
- ❖ Chairperson, Board of Studies of Microbiology, Department of Microbiology, Bharathidasan University.
- ❖Member in M. Phil & M. Sc., courses of Microbiology/world-class curriculum, BDU.
- ❖ Member in Five years integrated Life Science Course, Bharathidasan University.
- ❖ Subject expert (Microbiology / Biotechnology / Botany) in various universities / colleges of Tamil Nadu.
- ❖ University representative (Microbiology) in various colleges of Bharathidasan University.
- ❖ Microbiology expert of world-class curriculum in Tamil Nadu Universities common syllabi.
- ❖ Expert member in Microbiology (UG/PG), Tamil Nadu State Council for Higher Education (2019 to till date)

Board of Examiners/Viva Voce Conveners

- ❖ Ph.D. and M. Phil. viva voce examiners, M.Sc., M. Tech. question paper setters, and practical examiners in Microbiology, Botany, Biotechnology and Environmental Science Courses in several Universities and colleges of Tamil Nadu, Kerala, Karnataka, Andhra Pradesh, Telangana, Gujarat and West Bengal.

Ph.D. Thesis Adjudication/ Viva Voce Examiner

Sl. No.	Candidate Name	Supervisor Name/ Institution	Subject / Year
1.	Mr. N.V. Murugesan	Dr. S. Ramarethinam, TSC - Bharathiar University, Coimbatore	Plant Pathology/ 2008
2.	Ms. M. Umadevi	Dr. A. Thiruvaruldevi, GASC - Bharathiar University, Coimbatore	Botany/ 2009
3.	Ms. P. Selvameena	Dr. K. Arumugasamy, GASC - Bharathiar University,	Botany/ 2009

		Coimbatore	
4.	Mr. R. Shanmugasundaram	Dr.V.R. Mohan, VOC College - Manonmanian Sundaranar University, Tirunelveli	Botany/ 2009
5.	Ms. Lalitha Rani	Dr. V.R. Mohan,VOC College - Manonmanian Sundaranar University, Tirunelveli	Botany/ 2009
6.	Ms. Yachana kumari	Dr. R.B. Subramanian, Saardar Patel University, Gujarat	Biotechnology/ 2011
7.	Mr. JW Prakash	Dr. G.S. Regini Balasingh, SCC- Manonmanian Sundaranar University, Tirunelveli	Botany/ 2011
8.	Ms. V. P. Selva Shamal	Dr. G.S. Regini Balasingh, SCC- Manonmanian Sundaranar University, Tirunelveli	Botany/ 2011
9.	Ms. K. Razhitha Fathima	Dr. V.R. Mohan, VOCCollege- Manonmanian Sundaranar University, Tirunelveli	Botany/ 2011
10.	Mr. R. Sivalingam	Dr, D. Patric raja, St. Xaviers College - Manonmanian Sundaranar University, Tirunelveli	Botany/ 2011
11.	Mr. KM.Johnson,	Dr. P. Ponmurugan, Vinayaga Mission University, Salem	Biotechnology/ 2011
12.	Ms. Suchita Patel	Dr. R.B. Subramanian, Saardar Patel University, Gujarat	Biotechnology/ 2012
13.	Ms. Jiji Joseph	Dr. G.S. Regini Balasingh, SCC- Manonmanian Sundaranar University, Tirunelveli	Botany/ 2012
14.	Mr. Shradda D. Trivedhi	Dr. K.C.Patel, Saardar Patel University, Gujarat	Biotechnology/ 2012
15.	Ms. R. Mary Chiristi	Dr. A. Selvin Samuel, St. John's College- Manonmanian Sundaranar University, Tirunelveli	Botany/ 2012
16.	Mr. S. Jagannathan	Dr. K.R. Mani, Pasteur Institute - Bharathiar University, Coimbatore	Microbiology/ 2012

17.	Mr. T. Baluprakash	Dr. K. Arumugasamy, GASC-Bharathiar University, Coimbatore	Botany/ 2012
18.	Mr. Vimal kumar S. Prajapati	Dr. K.C.Patel, Saardar Patel University, Gujarat	Microbiology / 2012
19.	Ms. K. Shanmugapriya	Dr. Uthayakumari kalavathy, St. Maries College-Manonmanian Sundaranar University, Tirunelveli	Botany/ 2013
20.	Ms. P. Tresina Soris	Dr. V.R. Mohan, VOC College-Manonmanian Sundaranar University, Tirunelveli	Botany/ 2013
21.	Ms. P. Servin Wesley	Dr. B. Chitradevi, Karpagam University, Coimbatore	Biotechnology/ 2013
22.	Mr. K.C. Rohit,	Dr. P. Ponmurugan, Vinayaga Mission University, Salem	Biotechnology/ 2013
23.	N. Kulandai Therese	Dr. V.R. Mohan, VOC College-Manonmanian Sundaranar University, Tirunelveli	Botany/ 2013
24.	Ms. M. Sathya	Dr. R. Kokilavani, GASC-Bharathiar University, Coimbatore	Biochemistry/ 2013
25.	Mr. C. Biju	Dr. A. Selvin Samuel, St. John's College- Manonmanian Sundaranar University, Tirunelveli	Botany/ 2014
26.	Mr. MR. Udhayasankar	Dr. K. Arumugasamy, GASC-Bharathiar University, Coimbatore	Botany/ 2014
27.	Ms.D. Punitha	Dr. K. Arumugasamy, GASC-Bharathiar University, Coimbatore	Botany/ 2014
28.	Ms. T. Sasikala	Dr. K. Kalimuthu, GAS-Bharathiar University, Coimbatore	Botany/ 2014
29.	Mr. S. Vino	Dr. Asit Rajan Ghosh, VIT University, Vellore	Bioscience and Technology/ 2014

30.	Mr. R. Raja Roobia	Dr. R.M. Murugappan, Thiyagarajar College, Madurai Kamaraj University, Madurai	Zoology/ 2014
31.	Ms. T. Indhumathi	Dr. S. Suja, Dr. NGP College Bharathiar University, Coimbatore	Biochemistry/ 2015
32.	Dr. T. Anitha	Dr. R. Mary Josephine, Nirmala College - Bharathiar University, Coimbatore	Botany/ 2015
33.	Ms. S. Umamaheshwari	Dr. D. Aravind prasanth, Periyar University, Salem	Microbiology/ 2016
34.	Mr. M. Anis Kumar	Dr. P. Selvamani, Anna University, Trichirappalli	Pharmaceutical Technology/ 2016
35.	Ms. Mansi Kishorkumar Aparnathi	Dr. Jagdish S. Patel, Charotarn University of Science & Technology,Changa, Gujarat.	Applied Sciences/ 2017
36.	Mr. Chaitanyakumar Amballa	Dr. M. Anbalagan, SBST-VIT University, Vellore	Bio-Sciences and Technology/ 2018
37.	Mr. A. Murugan	Dr. R. Kannan, Chikkaiah Naicker College-Bharathiar University, Coimbatore	Botany/ 2018
39.	Ms. Mafatlal Motilal Kher	Dr. M. Natraj, Sardar Patel University, Gujarat	Botany/ 2018
	Ms. Santhana Mari	Dr. Udhayakumari Kalavthy St. Maries College, MS University, Tirunelvali	Botany/2018
40	Mr. Prasanth. M	Dr. PN. Ramesh SBST-VIT University, Vellore	Bio Sciences and Technology/2019
41	Ms. N. Padmini	Dr. G. Selvakumar, Alagappa University, Karaikudi	Microbiology/2020
42	Mr. R. Muthuraja	Dr. T. Muthukumar Bharathiar University, Coimbatore	Botany/2021
43	Mr. K. Nagaraj	Dr. T. Muthukumar Bharathiar University, Coimbatore	Botany/2021
44	Ms. Kiron Bhakat	Dr. Ekramul Islam Kalyani University, West	Microbiology/2022

		Bengal	
45	Ms. Roshini	Dr. VS. Harikumar Bharathiar University, Coimbatore	Microbiology/2022
46	Sasi kumar P	Dr. PM. Ayyasamy Bharathiar University, Coimbatore	Microbiology/2022
47	Mrs. Bindu	Dr Elcey C. Daniel Bharathiar University, Coimbatore	Botany/2022
48	Ms. KB.Vandana	Dr. SR. Prabagaran Bharathiar University, Coimbatore	Biotechnology/2022
49	Mr. Prasathkumar	Dr. S. Sadhasivam Bharathiar University, Coimbatore	Biotechnology/2022
50	Ms. Pia Dey	Dr. SK. Mukherjee University of Kalyani Kalyani, West Bengal	Microbiology/2022
51	Ms. Kiran Bhakat	Dr. Ekramul Islam University of Kalyani Kalyani, West Bengal	Microbiology/2022
52	Mrs. Hansiya V S	Dr. N. Geetha Bharathiar University, Coimbatore	Botany/2023
53	Mr. A. Vadivalagan	Dr. R. Kannan Bharathiar University, Coimbatore	Botany/2023
54	Ms. V. Kowsalya Devi	Dr. A. Rajendran Bharathiar University Coimbatore	Botany/2023
55	Mr. N. Arumugam	Dr. T. Kavitha Alagappa University Karaikudi	Microbiology/2023
56	Ms. Koshila Ravi. R	Dr. T. Muthukumar Bharathiar University, Coimbatore	Botany/2023
57	Ms. A. Sagna	Dr. Justin R. Nayagam Union Cristian College Mahatma Gandhi University,	Botany/2023

		Keral	
58	Ms. E. Sharone Gladies	Dr. B. Chitra Devi PSG Krishnammal College Bharathiar University	Botany/2023
59	Ms. Ramya Juilit	Dr. Tresina Soris VOC College - Manonmanian Sundaranar University, Tirunelveli	Botany
60	Ms. N. Gayathri	Dr. T. Parimelzhalagan Bharathiar University Coimbatore	Botany/2023
61	Mr. V. Sankaravel	Dr. A. Arunprasath PSG college of Arts & Science Bharathiar University Coimbatore	Botany/2023
62	Ms. Maya R	Dr. A. Yusuf Calicut University	Botany/2023
63	Ms. R. Umamaheshwari	Dr. L. Ramkumar, K.S.R College of Arts & Science Periyar University, Salem	Microbiology/2024
64	Ms. K. Priyanka	Dr. K. Preethi Bharathiar University Coimbatore	Microbial Biotechnology/2024
65	Ms. N. Ranjani	Dr. R. Kannan Bharathiar University, Coimbatore	Botany/2024
66	Ms. Gnana Priyanka Beulah	Dr. V.R. Mohan,VOC College - Manonmanian Sundaranar University, Tirunelveli	Botany/2024
67	Mr. B. Muthukumar	Dr. A. Rajasekar Thiruvalluvar University, Vellore	Biotechnology/2024
68	Ms. Varshini. R	Dr. P. Suganyadevi Karpagam Academy of Higher Education, Coimbatore	Biochemistry/2024

Advisory & Editorial Board

- ❖ Member in BARD-News Letter, Bharathidasan University, Tiruchirappalli, TN.
- ❖ Member in BDU Journal of Science & Technology, Bharathidasan University, Tiruchirappalli, TN.
- ❖ Advisory Member in Bioscience Discover (A National Journal of Life Sciences).

Reviewer in Project Proposal

- Reviewed research proposals from IFGTB (GoI), KSCSTE (GoKL), HRDG/CSIR (GoI) and TANSCHE (GoTN).

Reviewer Member in Research Journals

- African journal of biotechnology
- African journal of Environmental Sciences and technology
- African Journal of Food Sciences and Technology
- African Journal of Microbiology Research
- African Journal of Pure and Applied Chemistry
- Asian Pacific Journal of Tropical Disease
- Bioscience Discovery
- Biotechnology Advances
- Frontiers of chemical Sciences and Engineering for Asia Congress of biotechnology 2011
- International Food Research Journal
- International Research Journal of Microbiology
- International Research Journal of Plant Science
- Journal of Bacteriology Research
- Journal of Biomass and Bioenergy
- Journal of Cleaner Production
- Journal of Environmental Chemistry and Ecotoxicology
- Journal of Herbs, Spices & Medicinal Plants
- Journal of Medical Laboratory and Diagnosis
- Journal of Oceanography and Marine science
- Journal of Phycology
- Journal of Toxicology and Environmental Health Sciences
- Journal of Yeast and Fungal Research
- Journals of Agriculture and Biological sciences
- OMICS Publication Group/BIOBIO
- South Asian Journal of Biological Sciences

- Turkish Journal of Agriculture and Forestry

Contribution to Outside Services

- NAAC Accessor (Peer team committee member), from May 2024 to till dat.
- Management committee member for eminent educationalist in Kendra Vidyalaya (KV1), Ordinance Factory, Tiruchirappalli.
- Management committee member for eminent educationalist in Kendra Vidyalaya in Golden Rock, Ponmalai Railway Zone, Tiruchirappalli.
- Member of Academic Audit on Biotechnology and Industrial Biotechnology at Bharathiar University, Coimbatore.
- Member of Academic Audit on Microbiology and Biotechnology in various colleges.
- Faculty competencies evaluate members in KR college of Arts & Science College, Kovilpatti.
- Subject Expert for New Department Formation at Department of Microbiology, Thiruvalluvar University, Vellore, Tamil Nadu.
- Subject Expert for New Department Formation at Department of Microbiology, Ghandhigram Rural Institute (To be Deemed University), Dindigul, Tamil Nadu.

General Committee Members

- Ph.D. doctoral committee in Microbiology, Biotechnology, Plant sciences, Marine Biotechnology, Environmental Biotechnology, Environmental Management, Bioinformatics, Biochemistry and Zoology in various colleges and Universities of Tamil Nadu.
- Library Committee Member in School of Life Science, Bharathidasan University.
- External funded Project staff selection and general purchase committee members in various departments of Bharathidasan University.
- Served as selection committee member in Bharathidasan University, non-teaching staffs new recruitment and Departmental promotions.
- Served as convener/member for various academic/administrative reform/enquiry/initiative committee at Bharathidasan University.
- Academic Council Member (Bharathidasan University Representative) for two years (from 12.02.2017) to Government Arts College (Autonomous), Kumbakonam.

- ❖ Subject Expert of External Academic Audit in the Department of Biotechnology and Microbiology in Jamal Mohamed College, Tiruchirappalli – Tamil Nadu.
- ❖ Ph.D. Fellowship Award Committee member, Microbiologist's Society, India.

Doctoral Committee Member in Ph.D. Candidates

Sl.No.	Candidate Name	Supervisor/ Institution	Subject / Reg. Year
1.	Mr. T. Thangavelu	Dr. Joseph Selvin, Bharathidasan University. Tiruchirappalli	Microbiology / 2006
2.	Mr. G. Raja	Dr. (Mrs)B. D. Ranjitha Kumari, Bharathidasan University, Tiruchirappalli	Plant science / 2006
3.	Mr. R. Narayanan	Dr. K. Natarajaseenivasan, Bharathidasan University, Tiruchirappalli	Microbiology / 2007
4.	Mr. R.S. Ganeshkumar	Dr. M. Govindaraju, Bharathidasan University, Tiruchirappalli	Eco Biotechnology / 2007
5.	Mr. Chippu Shakir	Dr. Joseph Selvin, Bharathidasan University, Tiruchirappalli	Microbiology / 2008
6.	Mr. K. Ravindran	Dr. S. Sivaramakrishnan, Bharathidasan University, Tiruchirappalli	Biotechnology & Genetic Engineering / 2010
7.	Mr. Ajmalkhan	Dr. S. Ravikumar, Alagappa University, Karaikudi	Marine Sciences / 2010
8.	Mr. Dhinakar raj	Dr. S. Ravikumar, Alagappa University, Karaikudi	Marine Sciences / 2010
9.	Ms. B. Helen Mary Piramila	Dr. (Mrs.). A. Lakshmi Prabha Bharathidasan University, Tiruchirappalli	Plant science / 2010
10.	Ms. K. Vinodhini	Dr. K. Natarajaseenivasan, Bharathidasan University, Tiruchirappalli	Microbiology / 2010
11.	Mr. Thomas Abraham	Dr. M. A. Deepa, Anna University of Technology, Coimbatore	Science - Bioscience / 2011

12.	Mr. R. Syed Moideen	Dr. (Mrs). A. Lakshmi Prabha, Bharathidasan University, Tiruchirappalli	Plant science / 2011
13.	Ms. T. Prabha	Dr. R. Senthilkumar, J.J.College of Arts and Science, Pukkottai	Microbiology / 2011
14.	Mr. G. Sathiskumar	Dr. S. Sivaramakrishnan, Bharathidasan University, Tiruchirappalli	Biotechnology & Genetic Engineering / 2011
15.	Mr. K. Karpagam	Dr. S. Sivaramakrishnan, Bharathidasan University, Tiruchirappalli	Biotechnology & Genetic Engineering / 2011
16.	Mr. C. Rajkuberan	Dr. S. Sivaramakrishnan, Bharathidasan University, Tiruchirappalli	Biotechnology & Genetic Engineering / 2011
17.	Miss. T. Amutha	Dr. M. B. Viswanathan, Bharathidasan University, Tiruchirappalli	Plant science / 2011
18.	Ms. T. Mini Shobi	Dr. M. B. Viswanathan, Bharathidasan University, Tiruchirappalli	Plant science / 2011
19.	Mr. P. Sakthi Dhasan	Dr. M. B. Viswanathan, Bharathidasan University, Tiruchirappalli	Plant science / 2011
20.	Ms. M. Sheela Mary	Dr. N. D. Shrinithivihahshini, Bharathidasan University, Tiruchirappalli	Environmental Management / 2011
21.	Mr. Babu Rao Karasala	Dr. N. Ramesh, J.J.College of Arts and Science, Pudukkottai	Biotechnology / 2012
22.	Ms. S. Anusuya	Dr. M. Sathiyabama, Bharathidasan University, Tiruchirappalli	Plant science / 2012
23.	Ms. V. Umamaheswari	Dr. K. Thamaraiselvi, Bharathidasan University, Tiruchirappalli	Environmental Biotechnology / 2012
24.	Mr. M. Prathap	Dr. (Mrs)B. D. Ranjitha Kumari, Bharathidasan University, Tiruchirappalli	Plant science / 2012

25.	Mr. C. Thiyagarajan	Dr. K. S. Jayachandran, Bharathidasan University, Tiruchirappalli	Bioinformatics / 2012
26.	Mr. C. Samivel	Dr. P. K. Karuppasamy, Periyar E.V.R. College, Tiruchirappalli	Zoology / 2013
27.	Ms. S. Jenny	Dr. P. Malliga, Bharathidasan University, Tiruchirappalli	Marine Biotechnology / 2013
28.	Mr. S. Prabukumar	Dr. S. Sivaramakrishnan, Bharathidasan University, Tiruchirappalli	Biotechnology & Genetic Engineering / 2013
29.	Mr. P. Palaniappan	Dr. S. Sivaramakrishnan, Bharathidasan University, Tiruchirappalli	Biotechnology & Genetic Engineering / 2013
30.	Ms. Poorna Chandrika	Dr. K. Preethi / Bharathiar University, Coimbatore	Microbial Biotechnology / 2013
31.	Mr. Noushad Karuvantevida	Dr. S. Sivaramakrishnan / Bharathidasan University, Tiruchirappalli	Biotechnology & Genetic Engineering / 2014
32.	Ms. V. Akila	Dr. V. Rajakumar / Bharathidasan University, Tiruchirappalli	Marine Biotechnology / 2014
33.	Ms. T. Shalini Gnanam	Dr. A. Balasundaram / Periyar E.V.R. College, Tiruchirappalli.	Zoology / 2014
34.	Mr. I. Muthiah	Dr. P. Ponmurugan / K.S.Rangasamy college of Technology, Tiruchengode	Biotechnology / 2014
35.	Mr. K. Saravanan	Dr. V. Ravikumar / Bharathidasan University, Tiruchirappalli	Biochemistry / 2014
36.	Ms. Isoe Moraa Everlyne	Dr. D. Teepica Priya Darsini / Karpagam University, Coimbatore	Biotechnology / 2014
37.	Ms. Mridul Umesh	Dr. K. Preethi / Bharathiar University, Coimbatore	Microbial Biotechnology / 2015
38.	Mr. S. Muthukumar	Dr. M. Sathiyabama / Bharathidasan University, Tiruchirappalli	Plant science / 2016

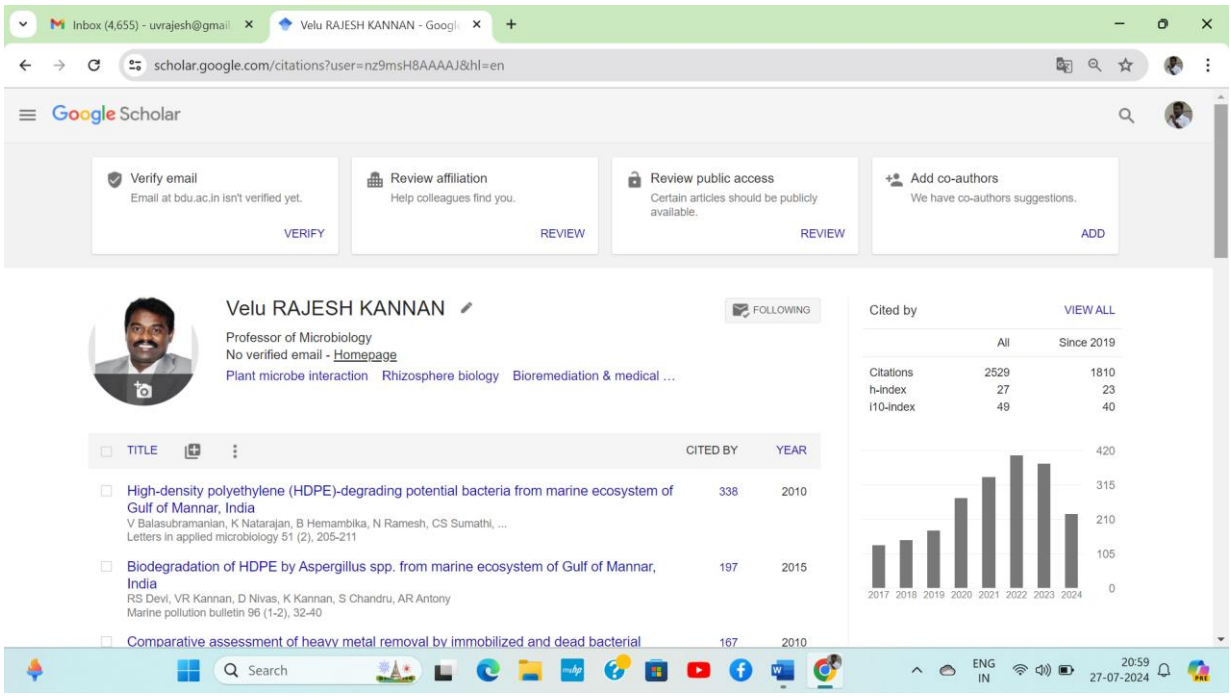
39.	Mr. A. Manikandan	Dr. S. Rajakumar / Bharathidasan University, Tiruchirappalli	Marine Biotechnology / 2016
40.	Mrs. E. Fiji	Dr. Anandaraj / MR College of Arts & Science, Bharathidasan University	Microbiology/2017
41.	Mrs Kavitha Hiremat B	Dr. Shivashankar M VIT, Vellore	SAS/2021
42.	Ms. Rijia	Dr. PU. Mahalingam Gandhigram Rural Institute Dindigul	Microbiology/2021
43.	Ms. K. Deepasree	Dr.Subhashree V VIT, Vellore	SBST/2021
44.	Ms. K. Mahalakshmi	Dr. John Thomas VIT, Vellore	SBST/2022
45.	Ms. Ida Florance P S	Dr. Seenivasan R VIT, Vellore	SBST/2022
46.	Ms. K. Harini	Dr. A. Veeraravi Alagappa University, Karaikudi	Biotechnology/2022
47.	Mr. Zeeshan Hyderi	Dr. A. Veeraravi Alagappa University, Karaikudi	Biotechnology/2022
48.	Mr. Nandhakumar	Dr.Subhashree V VIT, Vellore	SBST/2023
49.	Mr. K. Gowtham	Dr. T. Parimelzhalagan Bharathiar University, Coimbatore	Botany/2023
50.	Ms. Archana	Dr. PN. Ramesh VIT, Vellore	SBST/2023
51.	Ms. Debayani Chakraborty	Dr. Lavanya Devi The University of Trans-Disciplinary Health Sciences and Technology, Bangaluru	functional genomics and bioinformatics/2023

Participation in Courses

- UGC Orientation Course (November 02-29, 2006), UGC-Academic Staff College, Bharathidasan University, Tiruchirappalli, India.
- Practical Course of Mammalian Cell Culture for Heterologous Gene Expression and Reporter Gene Analysis. (22 October to 3 November, 2007). International Centre for Genetic Engineering & Biotechnology (ICGEB), New Delhi. India.
- Refresher Course in Life Sciences (August 11-31, 2010), UGC-Academic Staff College, Bharathidasan University, Tiruchirappalli, India.

- Theoretical and Practical Course of "Quorum Sensing in Plant Associated Bacteria" 23-26 May 2011, International Centre for Genetic Engineering and Biotechnology (ICGEB) Trieste, Italy.
- Refresher Course in Life Sciences (June 29 to July 19, 2013), UGC-Academic Staff College, Bharathidasan University, Tiruchirappalli, India.
- Winter School on Molecular identification of invasive and emerging Phytophthora diseases of horticultural crops to be held from 2-23, September 2013 at Indian Institute of Horticultural Research, Bangalore, India.
- Refresher Course in Life Sciences (March 3 to March 23, 2016), UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli, India.
- International Hybrid Rice Technology Training Course from September 5th to September 25th, 2017 in Changsha, Hunan 410125, P. R. China.
- National Workshop on "Utilization Internet Resources in Class Room Instruction" (UIRCI-2018) on 12th, January, 2018, organized by the Department of Education, CDE, Bharathidasan University, Tiruchirappalli, India.
- Orientation workshop on SWAYAM (03.05.2018), Jointly organized by Department of Library & Information Science and UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli, India.
- National Workshop on "Application of open sources for statistical analysis in educational research" (29.11.20219), organized by the Department of Education, CDE, Bharathidasan University, Tiruchirappalli, India.
- UGC-Sponsored Professional Development workshop for IQAC Coordinators & Academic Administrators on Quality Assurance & Sustenance in Higher Education Institutions (21st and 22nd February 2020). UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli, India.
- NAAC Assessor Orientation Course on 31.5.2024 through online. Organized by National Assessment & Accreditation Council, Bangaloru.

Citation Indices:



(Google Scholar: https://scholar.google.com/citations?user=nz9msH8AAAAJ&hl=en)

Cumulative impact factors	: ~258.54

Publications

	Published Items	Numbers
1	Research articles	110
2	Review articles	4
3	Book chapters	23
4	Edited books	5
5	Published proceedings	3
6	Major/minor research reports	11
7	Popular articles	2
8	Patents	3 (filed/Published-2)
	Total	**173**

	Published items	Numbers
1	Abstract in conference	205
2	NCBI submission	159*

**Nine numbers of 454 pyro sequence*

Research Articles

1. Muthukumar, T., K. Udaiyan and **V. Rajesh Kannan. (2001).** Response of neem (*Azadirachta indica* A. Juss) to indigenous arbuscular mycorrhizal fungi, phosphate solubiling and asymbiotic nitrogen fixing bacteria under tropical nursery conditions**. Biology and Fertility of Soils**. **34(6): 417-426. (IF:6.432)**
2. Muthukumar. T., P.N. Damodaran, **V. Rajesh Kannan** and K. Udaiyan. **(2005).** Muthukumar. T., P.N.Damodaran, **V. Rajesh Kannan** and K. Udaiyan. Distribution, Spore ontogeny in *Acaulospora scrobiculata* and the influence of host species on spore production. **Nova Hedwigia. 81(3-4): 477-491. (IF:1.254).**
3. Thangapandian, V., T. Muthukumar, **V. Rajesh Kannan** and K. Udaiyan. **(2006).** Importance of seed Reserves in Arbuscular Mycorrhizal formation and Growth of *Azadirachta indica* A. Juss. **Journal of Sustainable Forestry**. **22(3/4): 15-32. (IF:1.77).**
4. Latha, M., K.M. Ramkumar, L. Pari, P.N. Damodaran, **V. Rajesh Kannan** and T. Suresh. **(2006).** Phytochemical and antimicrobial study of an antidiabetic plant: *Scoparia dukis* L. **Journal of Medicinal Food. 9(3): 391-394. (IF:2.542).**
5. Dhanapal, K., Joseph Thomas, **V. Rajesh Kannan**, K. Udaiyan and B. Gopakumar. **(2006).** Studies on improvement of seedling quality and management of rot diseases of *Elettaria cardamomum* Maton. (Small cardamom) through microbial inoculants. **Journal of Plantation Crop. 34(3): 461-466. (IF:0.327).**
6. **Rajesh Kannan, V.**, K. Dhanapal. Joseph Thomas and K. Udaiyan. **(2006).** Studies on dynamics of AM fungal association and spore density in *Elettaria cardamomum Maton* (small cardamom). **Journal of Plantation Crop. 34(3): 489-493. (IF:0.327).**
7. Nandhakumar, R., T. Suresh, A.L. Calistus Jude, **V. Rajesh Kannan** and P.S. Mohan. **(2007).** Synthesis, antimicrobial activities and cytogenetic studies of newer diazepinoquinoline derivatives via Vilsmeier Haack reaction. **European Journal of Medicinal Chemistry. 42: 1128-1136. (IF:7.1).**
8. Suriyanarayanan, S., K.M. Ramkumar, M. Latha and **V. Rajesh Kannan**. **(2007)**. Antimicrobial and free radical scavenging activity of *Cassia auriculata* L. flowers. **International Journal of Natural and Applied Science. 3(1): 39-42**.
9. **Rajesh Kannan, V.**, V. Thangapandian, T. Muthukumar and C.S. Sumathi. **(2007)**. Influence of bioinoculants on growth and nutrient uptake in green gram (*Vigna radiata* L.). **Journal of Sustainable Agriculture. 31(3): 85-109. (IF: 1.719).**
10. C. S. Sumathi, V. Balasubramanian, N. Ramesh and **V. Rajesh Kannan**. **(2008)**. Influence of biotic and abiotic features on *Curcuma longa* L.

Plantation under tropical condition. **Middle East Journal of Scientific Research. 3(4): 17-178.**

11. Nachimuthu Ramesh, Chettipalayam Samiappan Sumathi, Velramar Balasubramanian, **Velu Rajesh Kannan** and K.P. Ravichandran. **(2008).** Urinary tract infection and Antimicrobial Susceptibility pattern of Extended Spectrum of Beta Lactamase Producing Clinical Isolates. **Advances in Biological Research.2(5-6): 78-82.**
12. N. Ramesh, **V. Rajesh Kannan**, K. Karthikeyan, K. Nanthakumar and R. Karthik Raja. **(2009).** Sero Diagnosis of bluetongue Virus infection and isolation of virus in embryonated chicken egg and Bhk -21 cell Line. **Research Journal of Microbiology. 4(5): 186-193. (IF: 3.946).**
13. Rajesh, P., Selvamani, P., Latha, S., Saraswathy, A. and **Rajesh Kannan. V. (2009**). Anti-inflammatory activity of ethanolic extracts of Leaves of *Capparis sepiaria* linn. in Wistar strain rats. **Electronic Journal of Pharmacology and Therapy. 2: 45-50.**
14. **Rajesh Kannan. V.,** C.S. Sumathi, V. Balasubramanian and N. Ramesh. **(2009)**. Elementary chemical profiling and antifungal properties of cashew (*Anacardium occidentale* L.) nuts. **Botany Research International. 2(4): 253-257.**
15. Rajesh. P, S. Latha, P. Selvamani, A. Saraswathy, **V. Rajesh Kannan. (2009).** Role of *Celosia polygonoids* Juss. In the Experimental model of inflammation in wistar rats. **Journal of Phytology. 1(3): 185-192. (IF:0.648).**
16. P. Rajesh, S. Latha, P. Selvamani, A. Saraswathy,and M. Thambidurai, **V. Rajesh Kannan. (2009).** A wide array anti-inflammatory study in an ethanolic extract of *Pupalia lappacea* (*Amaranthaceae*) by using Wistar rats. **Archives of Applied Science research. 1(2): 150-158**.
17. P. Rajesh, **V. Rajesh Kannan,** Selva Kumar Chandrasekaran, and Padmanaban Bashiyam. **(2009)**. Effect on extracts of *Stevia rebaudiana B*ertoni. In ethanol induced gastric ulcer by using wistar rats. **Recent research in Science and Technology. 1(3): 127-130.**
18. P. Rajesh, S.Latha, P. Selvamani, A. Saraswathy and **V. Rajesh Kannan**. **(2009).** Role of *Strychnos bicirohssa* Benth. on anti-inflammatory activity in experimental model by using Wistar rats. **Current Biotica. 3(2): 171-181**.
19. **Rajesh Kannan. V.,** C. S. Sumathi and S. Manian. **(2009).** Arbuscular mycorrhizal fungi colonization in upland rice as influenced by agrochemical application. **Rice Science. 16(4): 307-313.** (**IF: 4.412**).

20. P. Rajesh, S. Latha, P. Selvamani and **V. Rajesh Kannan. (2010).** Phytochemical screening and toxicity studies on the leaves of *Capparis sepiaria* Linn. **Journal of Basic and Clinical Pharmacy. 1(1): 41-46. (IF: 10.2).**

21. Johncy Rani, M., B. Hemambika, J. Hemapriya and **V. Rajesh Kannan. (2010).** Comparative assessment of heavy metal removal by immobilized and dead bacterial cells: A Biosorption Approach. **African Journal of Environmental Science and Technology. 4(2). 77-83.**

22. Rajesh. P., S. Latha, P. Selvamani, and **V. Rajesh Kannan. (2010).** *Capparis sepiaria* Linn. - Pharmacognostical standardization and toxicity profile with chemical compounds identification (GC-MS). **International Journal of Phytomedicine. 2:71-79. (IF:1.23).**

23. Mahalakshmi, R., P. Rajesh, N. Ramesh, V. Balasubramanian and **V. Rajesh Kannan. (2010).** Hepatoprotective activity on *Vitex negundo* Linn. (Verbanceae) by using Wistar albino rats in ibuprofen induced model. **International Journal of Pharmacology. 6(5): 658-663. (IF:0.7).**

24. P. Rajesh, **V. Rajesh Kannan** and M. Thambi Durai. **(2010).** Effect of *Stevia rebaudiana* Bertoni ethanolic extract on anti-cancer activity of Erlisch's Ascites Carcinoma induced mice. **Current Biotica. 3(4): 549-554**.

25. Hemapriya, J., **V. Rajesh Kannan** and S. Vijay Anand. **(2010).** Bacterial Decolourization of Textile Azo dye Direct Red-28 under aerobic Condition. **Journal of Pure and Applied Microbiology. 4 (1): 309-314. (IF:1.053).**

26. V.Balasubramanian, K. Natarajan, B. Hemambika, N. Ramesh, C.S. Sumathi, R. Kottaimuthu and **V. Rajesh Kannan. (2010)**. High-density polyethylene (HDPE) degrading potential microorganisms from marine ecosystem of Gulf of Mannar, India. **Journal of Letters in Applied Microbiology. 51: 205-211. (IF: 2.813).**

27. Thambi durai. M, Rajesh. P, Balamurugan. B and **Rajesh Kannan. V. (2010).** *In-vitro* anti-oxidant and anti-microbial study on *Cassia auriclata* Linn. **International Journal of Pharma and BioSciences. VI(2): 1-7.**

28. Kalimuthu. S, Rajesh. P, **Rajesh Kannan. V,** Balamurugan, B, and Chandrasekar T.M. **(2010).** Antiulcer activity of methanolic extract of *Acalypha indica* Linn. (Euphorbiaceae) by pylorous ligature and swine stress induced ulceration. **Journal of Pharmacy Research. 3(11): 2779-2783. (IF: 2.89).**

29. Rajesh. P, Balasubramanian. V, Ramesh. N and **Rajesh Kannan. V. (2010).** A biochemical approach on *Curcuma longa* Linn. (Turmeric) against alcoholic

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79. Kavitha R, Jayalakshmi A, Sivaranjani G, Nivetha M, Boopathy K, Sangeetha Devi R and Rajesh Kannan V. (2015). KU182438/16S rRNA/ *Bacillus pumilus* RBL15-6. Partial sequence.

80. Sivaranjani G, Nivetha M, Boopathy K, Kavitha R, Jayalakshmi A, Sangeetha Devi R and Rajesh Kannan V. (2015). KU182439/16S rRNA/ *Bacillus cereus* RBL15 - 8. Partial sequence.

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82. Praveen Xaviour P, Kumaravel S, Dhivya S, Vismaya S, Karthiga RM, Sangeetha Devi R and Rajesh Kannan V. (2015). KU182441/ 16S rRNA *Bacillus pumilus* RBL15 - 11. Partial sequence.

83. Jayalakshmi A, Sivaranjani G, Nivetha M, Boopathy K, Kavitha R, Sangeetha Devi R and Rajesh Kannan V. (2015). KU182442/16S rRNA/ *Bacillus sp*. RBL15 - 12. Partial sequence.

84. Kumaravel S, Dhivya S, Vismaya S, Karthiga RM, Praveen Xaviour P, Sangeetha Devi R and Rajesh Kannan V. (2015). KU182443/ 16S rRNA *Bacillus pumilus* RBL15 - 12. Partial sequence.

85. Dhivya S, Vismaya S, Karthiga RM, Praveen Xaviour P, Kumaravel S, Sangeetha Devi R and Rajesh Kannan V. (2015). KU182444/16S rRNA *Bacillus lichiniformis* RBL15 - 13. Partial sequence.

86. Divya S, Yamuna M, Jayaraj KA, Revthy B, Mahalakshmi M Sangeetha Devi R and Rajesh Kannan V. (2015). KU182445/16S rRNA *Alcaligenes faecalis* RBL15 - 17. Partial sequence.

87. Jayaraj KA, Revthy B, Mahalakshmi M, Divya S, Yamuna M, Sangeetha Devi R and Rajesh Kannan V. (2015). KU182446/16S rRNA *Citrobacter freundii* RBL15 - 19. Partial sequence.

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89. Manikandan A, Rajesh Kannan V, Sangeetha Devi R and Ramya R. (2015). KT1426687/16S rRNA *Pseudomonas putida* RBL8. Partial sequence.

90. Janani R and Rajesh Kannan V. (2016). KU513832/16S rRNA *Bacillus thuringiensis* RBL10. Partial sequence.

91. Janani R and Rajesh Kannan V. (2016). KU513833/16S rRNA *Bacillus thuringiensis* RBL10. Partial sequence.

92. Rajesh Kannan,V.,Nivas,D., Chandru,S. and Kannan,K. (2016). KY373248// 16S rRNA/*Bacillus safensis* strain CH17 / 718 bp/16S ribosomal RNA gene, partial sequence.

93. Rajesh Kannan,V.,Nivas,D., Chandru,S. and Kannan,K. (2016). KY373249// 16S rRNA/*Bacillus sp*. strain MDU8/ 674 bp/16S ribosomal RNA gene, partial sequence.

94. Rajesh Kannan,V., Nivas,D., Chandru,S. and Kannan,K. (2016). KY373250// 16S rRNA/*Bacillus aerophilus* strain TRY9 /1131 bp/16S ribosomal RNA gene, partial sequence.

95. Rajesh Kannan,V.,Nivas,D., Chandru,S. and Kannan,K. (2016). KY373251// 16S rRNA/*Bacillus altitudinis* strain CH5 /515 bp/16S ribosomal RNA gene, partial sequence.

96. Rajesh Kannan,V., Nivas,D., Chandru,S. and Kannan,K. (2016). KY373252// 16S rRNA/*Bacillus pumilus* strain MDU12/752 bp/16S ribosomal RNA gene, partial sequence.

97. Rajesh Kannan,V.,Nivas,D., Chandru,S. and Kannan,K. (2016). KY373253// 16S rRNA/*Bacillus aerophilus* strain TRY3/1131 bp/16S ribosomal RNA gene, partial sequence.

98. Amirthalakshmi,K., Manikavasagam,M., Priya,V., Sivasankari,S., Ramya,R. and Rajesh Kannan V. (2017). MG470804/16S rRNA/ *Enterobacter cloacae* strain RBL17-1. 854 bp. Partial sequence.

99. Bervin,K., Shibinaya,N., Swetha,S., Pandeeswari,R., Ramya,R. and Rajesh Kannan. V. (2017). MG470805/16S rRNA/ *Bacillus marisflavi* RBL17-4. 877bp. Partial sequence.

100. Keerthika,S., Emima,J.M., Sabarika,S., Vignewshwaran,A., Ramya,R. and Rajesh Kannan. V. (2017). MG470806/16S rRNA/ *Bacillus subtilis* RBL17-14. 1001bp. Partial sequence.

101. Shibinaya,N., Bervin,K., Pandeeswari,R., Swetha,S., Ramya,R. and Rajesh Kannan. V. (2017). MG470807/ 16S rRNA/ *Bacillus subtilis* RBL17-29. 818bp.Partial sequence.

102. Swetha,S., Pandeeswari,R., Bervin,K., Shibinaya,N., Ramya,R. and Rajesh Kannan,V. (2017). MG518391/ 16S rRNA/ *Pseudomonas aeruginosa* RBL17-35. 889bp. Partial sequence.

103. Priyanka,G., Anushiya,K., Naveen Kumar,N., Dhevi,K., Ramya,R. and Rajesh Kannan. V. (2017). MG518392/ 16S rRNA/ *Stenotrophomonas pavanii* RBL17-22. 639bp. Partial sequence.

104. Seethalakshmi,S., Dhevi,K., Jebarson,A.D., Subashini,S., Ramya,R. and Rajesh Kannan,V. (2017). MG518393/ 16S rRNA/ *Comamonas terrae* RBL17-27. 1001bp. Partial sequence.

105. Subashini,S., Naveen Kumar,N., Seethalakshmi,S., Dhevi,K., Ramya,R. and Rajesh Kannan,V. (2017). MG518394/ 16S rRNA/ *Acinetobacter baumannii* RBL17-32. 547bp. Partial sequence.

106. Yogapriya,R., Azhagurani,M., Selvakumar,V.K., Padma Priya,S., Ramya,R. and Rajesh Kannan,V. (2017). MG518395 / 16S rRNA/ *Pseudomonas aeruginosa* RBL17-39. 1001bp. Partial sequence.

107. Krishna Priya,M., Yoga Priya,R., Robert Antony,A. and Rajesh Kannan,V. (2017) MG576404 / 16S rRNA/ *Bacillus aryabhattai* RBL42. 756bp. Partial sequence.

108. Yoga Priya, R., Krishna Priya,M., Robert Antony,A. and Rajesh Kannan,V. (2017) MG576405 / 16S rRNA/ *Bacillus licheniformis* RBL43. 834bp. Partial sequence.

109. Shibinaya N, Uma Maheshwari. M, Kannan. K, Rajesh Kannan. V (2018) – MH165174 / 16S rRNA/. *Rhizobium Leguminosarum* RBL 44. 990bp. Partial sequence.

110. Shibinaya N, Uma Maheshwari. M, Kannan. K, Rajesh Kannan. V (2018) – MH165175/ 16S rRNA/. *Bradyrhizobium japanicum* RBL 45. 934bp. Partial sequence.

111. Naveen Kumar. N, Anushiya. K, Ramya. R, Rajesh Kannan. V (2018) – MH102211 / 16S rRNA/. *Bacillus Cereus* RBL 46. 1000 bp. Partial sequence

112. Janani. R, Rajesh Kannan. V (2018) - MH341006 / 16S rRNA/. *Bacillus thuringiensis* RBLJ11. 878 bp. Partial sequence

113. Janani. R, Rajesh Kannan. V (2018) - MH341007 / 16S rRNA/. *Bacillus thuringiensis* RBLJ19. 575 bp. Partial sequence

114. Janani. R, Rajesh Kannan. V, (2018) - MH341008 / 16S rRNA/. *Bacillus thuringiensis* RBL21. 823 bp. Partial sequence

115. Nathiya Subramanian, Rajesh Kannan Velu, Ramya Rajendran, Janani Rajendran (2018) – Sub ID 2139534/16S rRNA/. *Pseudomonas aeruginosa* RBL 47. Partial sequence

116. Nathiya Subramanian, Rajesh Kannan Velu, Ramya Rajendran, Janani Rajendran (2018) - Sub ID 2139534/16S rRNA/. *Sphingobacterium Changzhonense* RBL48. Partial sequence

117. Amina,S., Hamshini,C., Akalya,A., Jasmine Mary,P., Ghadhija Begum,G., Nandha,B., Janani,R. and Rajesh Kannan,V (2018) - MK159742 / 16S rRNA/. *Bacillus anthracis* RBL44. 488 bp. Partial sequence

118. Akalya,A., Kavitha,M., Amina,S., Kavin Kumar,K., Arunothaya,V., Sathya,E., Janani,R. and Rajesh Kannan,V (2018) - MK160118 / 16S rRNA/. *Bacillus thuringiensis* RBL45. 405 bp. Partial sequence

119. Ragaranjani,R., Kavin Kumar,K., Sobanaa,M., Kousalya,J.,Kavitha,M., Jasmine Mary,P., Janani,R. and Rajesh Kannan,V (2018) - MK229188 / 16S rRNA/. *Acinetobacter baumannii* RBL46. 379 bp. Partial sequence

120. Sobanaa,M., Pranav,P., Ragaranjani,R., Ghadhija Begum,G., Kousalya,J., Karunambika,T., Janani,R. and Rajesh Kannan,V (2018) - MK235147 / 16S rRNA/.*Brevundimonas diminuta* RBL46. 235 bp. Partial sequence

121. Thandapani,S., Arunothaya,V., Mukil Sukitha,P., Nandha,B., Pranav,P., Venkidesh,B., Janani,R. and Rajesh Kannan,V (2018) - MK161351 / 16S rRNA/.*Enterobacter ludwigii* RBL47. 349 bp. Partial sequence

122. Mukil Sukitha,P., Sathya,E., Banupriya,P., Gnanasoundarya,A.,Sangeetha,S., Sowkarthigaa,V., Janani,R. and Rajesh Kannan,V (2018) - MK161465/ 16S rRNA/. *Lysinibacillus* sp RBL 49. 271 bp. Partial sequence

123. Sowkarthigaa,V., Karunambika,T., Thandapani,S., Venkidesh,B., Banupriya,P., Hamshini,C., Janani,R. and Rajesh Kannan,V (2018) - MK229197/ 16S rRNA/. *Bacillus* sp RBL 50. 327 bp. Partial sequence.

124. Kayalvizhi Rajendren, Ramya Rajendren and Rajesh Kannan Velu. (2022)- RBL- 49 OM462366 -*Psuedomonas* Sp. Partial Sequence.

125. Kayalvizhi Rajendren., Ramya Rajendren and Rajesh Kannan Velu (2022) OM462366/16S rRNA/. *Psuedomonas* Sp. RBL 49. 691bp. Partial Sequence.

126. Kayalvizhi Rajendren., Rajesh Kannan Velu and Shahanaz Begum Nazirahmed (2022)-ON529335/ 16S rRNA/*Psuedomonas auerοginosa*. RBL 50. 306bp. Partial Sequence

127. Kayalvizhi Rajendren., Rajesh Kannan Velu and Mukil Sukitha Pasupathi (2022) - ON529283/ 16S rRNA/. *Psuedomonas auerοginosa*. RBL 51. 503bp. Partial Sequence.

128. Sasirekha Balakrishnan., Mukil Sukitha Pasupathi., Kayalvizhi Rajendren and Rajesh Kannan Velu (2022) - AH11-ON406562/ 16S rRNA/. RBL 52. 3bp. Partial Sequence

129. Sasirekha Balakrishnan., Mukil Sukitha Pasupathi., Kayalvizhi Rajendren and Rajesh Kannan Velu (2022) - VM5-ON394625/ 16S rRNA/. RBL 52. 3bp. Partial Sequence

130. Kayalvizhi Rajendren., Ramya Rajendren and Rajesh Kannan Velu (2022) - OM462366/ 16S rRNA/. RBL49. 691bp. Partial Sequence
131. Rukkumani Raja., Parvatham Kalyanasundaram and Rajesh Kannan Velu (2022). OP750376/ 18S rRNA/. RBL 52. 348bp. Partial Sequence
132. Shahanaz Begum Nazirahmed and Rajesh Kannan Velu (2022) PRJN832090/ 16S rRNA/. 2bp. Partial Sequence
133. Narmatha., Shahanaz Begum and Rajesh Kannan Velu (2023). OQ692899/ 16S rRNA/. *Bacillus paramobilis* RBL 54. 772bp. Partial Sequence.
134. Kamali Aravan., Shahanaz Begum and Rajesh Kannan Velu (2023). OQ693598 *Enterobacter cloacae* RBL 55. 705bp. Partial Sequence.
135. Ragavi., Shahanaz Begum and Rajesh Kannan Velu (2023) - OQ699211/ 16S rRNA/. *Klebsiella Pneumoniae* RBL56. 685bp. Partial Sequence.
136. Kamali Aravan., Shahanaz Begum and Rajesh Kannan Velu (2023). OQ694979/ 16S rRNA/. *Bacillus cereus* RBL 57. 705bp. Partial Sequence.
137. Narmatha., Shahanaz Begum and Rajesh Kannan Velu (2023). OQ696045/ 16S rRNA/. *Achromobacter mucicolens* RBL 58. 703bp. Partial Sequence.
138. Narmatha., Shahanaz Begum and Rajesh Kannan Velu (2023). OQ699209/ 16S rRNA/. *Pectobacterium vermicola* RBL 59. 683bp. Partial Sequence.
139. Ragavi., Shahanaz Begum and Rajesh Kannan Velu (2023). OQ702755/ 16S rRNA/. *Entrobacter cloacae* RBL 60. 727bp. Partial Sequence.
140. Narmatha., Shahanaz Begum and Rajesh Kannan Velu (2023). OQ701388/ 16S rRNA/. *Alcaligenes faecalis* RBL 62. 693bp. Partial Sequence.
141. Gokilapriyavarthini, Parvatham Kalyanasundaram and Rajesh Kannan Velu (2023). OR195786/16S rRNA/. Enterobacter RBL 61. Partial Sequence.
142. Thanuja, Parvatham and Rajesh Kannan Velu (2023).OR077391/16S rRNA/.*Providencia vermicola* RBL 63. Partial Sequence.
143. Senthil raja.P, Shalini.T.S., Manivel G. and Rajesh Kannan Velu (2023). OR536219/16S rRNA/Enterobacter pseudoroggenkampii PSM S9. Partial Sequence.
144. Senthil raja.P, Shalini.T.S., Manivel G. and Rajesh Kannan Velu (2023). OR536262/16S rRNA/. Pseudomonas cedrina PSM S10. Partial Sequence.
145. Senthil raja.P, Shalini.T.S., Manivel G. and Rajesh Kannan Velu (2023).OR536263/16S rRNA/. Pseudomonas synxantha PSM S11. Partial Sequence.
146. Senthil raja.P, Shalini.T.S., Manivel G. and Rajesh Kannan Velu (2023). OR536220/16S rRNA/. Enterobacter cloacae PSM S12. Partial Sequence.
147. Vidhyasri.R, Atsaya Alagarsamy and Rajesh Kannan Velu (2024). PP683143/16S rRNA/. Acinetobacter indicus RBL 64. Partial Sequence.
148. Sneka.M, Atsaya Alagarsamy and Rajesh Kannan Velu (2024). PP683153/16S rRNA/. Pseudomonas japonica RBL 65. Partial Sequence.

149. Swathi. C, Dharanika rajendran and Rajesh Kannan Velu (2024). PP716835/16S rRNA/. Nocardiopsis dassonvillei RBL 66. Partial Sequence.
150. Swathi. C, Dharanika rajendran and Rajesh Kannan Velu (2024). PP716849/16S rRNA/. Bacillus velezensis RBL 67. Partial Sequence.

NCBI-Metagenomics Bioproject: PRJNA168307 (Uncultivable bacterium) (Authors/Accession No./Name of Gene/Platform/Title)

1. King Solomon E and V Rajesh Kannan. (2013). SRX171212 / 16S rRNA / LS454 / SRP013697-Rhizosphere soil targeted locus - Normal soil control (Without crop).
2. King Solomon E and V Rajesh Kannan. (2013). SRX157297 / 16S rRNA / LS454 / SRP013697-Rhizosphere soil targeted locus - Phosphate solubilizing bacteria bioinoculants control soil (Without crop).
3. King Solomon E and V Rajesh Kannan. (2013). SRX157296 / 16S rRNA / LS454 / SRP013697-Rhizosphere soil targeted locus - *Azospirillum* bioinoculants control soil (Without crop).
4. King Solomon E and V Rajesh Kannan. (2013). SRX157295 / 16S rRNA / LS454 / SRP013697-Rhizosphere soil targeted locus - Bt cotton in Phosphate solubilizing bacteria bioinoculants rhizosphere soil.
5. King Solomon E and V Rajesh Kannan. (2013). SRX157294 / 16S rRNA / LS454 / SRP013697-Rhizosphere soil targeted locus - Bt cotton in *Azospirillum* bioinoculants rhizosphere soil.
6. King Solomon E and V Rajesh Kannan. (2013). SRX157293 / 16S rRNA / LS454 / SRP013697-Rhizosphere soil targeted locus - Bt cotton in normal rhizosphere soil.
7. King Solomon E and V Rajesh Kannan. (2013). SRX157292 / 16S rRNA / LS454 / SRP013697-Rhizosphere soil targeted locus - Non-Bt cotton in *Azospirillum* bioinoculants rhizosphere soil.
8. King Solomon E and V Rajesh Kannan. (2013). SRX157291 / 16S rRNA / LS454 / SRP013697-Rhizosphere soil targeted locus - Bt cotton in normal soil.
9. King Solomon E and V Rajesh Kannan. (2013). SRX153140 / 16S rRNA / LS454 / SRP013697-Rhizosphere soil targeted locus - Non-Bt cotton in normal soil.

Other Editorial Experience

1. Edited as Souvenir (Boffin's day, 2004), Men's Hostel, Bharathiar University, Coimbatore.
2. Edited as Symposium Souvenir (Abstract volume), National symposium on current scenario in microbial technology, Department of Microbiology, Bharathidasan University, Tiruchirappalli.
3. Member in Editorial Board: BADR monthly newsletter (2008 onwards)

4. Edited as Conference Abstract volume, National Conference on Microbiological Research in 21st Century (NCOMRIT-12), Department of Microbiology, Bharathidasan University, Tiruchirappalli - 24.
5. Editorial in chief, a special issue on contributed volume from National Conference on Microbiological Research in 21st Century (NCOMRIT-12) in International Journal of Medicobiological Research. 2012: vol.1; issue 6.
6. Edited as Conference Abstract volume. International Conference on Microbiological Research: Current Challenges and Future Perspectives (ICMR:CCFP-2024), Department of Microbiology, Bharathidasan University, Tiruchirappalli – 24, Jointly organized with Microbiologists Society India.

Conference/Symposia Participation & Papers Presentation

- **87th The Indian Science Congress, Pune. (2000).**
  1. Fungi growing on wood in a cooling tower water system in India I. Frequency and pattern of colonization on fresh wood.
- **88th The Indian Science Congress, New Delhi. (2001).**
  2. Influence of edaphic and climatic factors on root colonization and sporulation of arbuscular mycorrhizal fungi associated with *Camellia sinensis* (L.)O. Kuntze.
- **23rd Annual Conference of Indian Society of Mycology and Plant Pathology, Warangal. (2001).**
  3. Response of cowpea to arbuscular mycorrhiza as influenced by organic manuring.
- **89th the Indian Science Congress, Lucknow. (2002).**
  4. Rooting and subsequent growth of Tea softwood stem cuttings inoculated with AM fungi.
- **91th the Indian Science Congress, Chandigarh. (2004).**
  5. Arbuscular mycorrhizal colonization in upland rice as influenced by agrochemical application.
- **92nd the Indian Science Congress, Aghmadabad. (2005).**
  6. AM fungi colonization in groundnut (*Arachis hypogea* L.) as Influenced by systemic fungicide application.
- **International Conference on Biodiversity of Insects: Challenging issues in Management and Conservation: (2006).**
  7. Plant extract for the dual role of insect control and biodiversity management.
- **International conference on biotechnological approaches in bioresources management (ICBABM-07): Department of Biotechnology, Bharathidasan University.**
  8. Studies on the entomopathogenic fungus, *Paecilomyces fumosoroseus* (Deuteromycotina: Hypomycetes) for the control of red spider mite of tea, *Oligonychus coffeae* (Acari: Tetranychidae).
  9. Seasonal patterns of glomalin in Turmeric (*Curcuma longa* L.)

10. Marine natural products: A potential and novel source for developing eco-friendly biopesticides.

- **International conference on vision on rural water, life & environment in 21st century: organized by Department of geology, Bharathidasan University.**

11. Seasonal fluctuation of AM fungal association and spore density in the rhizosphere of *Casuarina equisetifolia* Forst. and *Dalbergia latifolia* Roxb.

- **IInd Asian conference of mycology and plant pathology association, Hyderabad (December, 19 to 22, 2007)**

12. Efficiency of bioinoculants in *Casuarina equisetifolia* seedlings quality improvement.

- **Symposium on "Bioresources in the development of medicine" and 28th Annual conference of Indian association of biomedical scientists, NFMC, Bharathidasan University (September, 20-22, 2007).**

13. Ayurveda - A boon for controlling diabetes mellitus

- **National Symposium on Current Scenario in Microbial Technology, Department of Microbiology, Bharathidasan University (January, 3 to 5, 2008)**

14. Population dynamics of microorganisms in *Curcuma Longa* L. Rhizosphere
15. Assessment of phytochemical variations of *Curcuma Longa* L.
16. Microbial remediation of plastic wastes
17. Extended potentials of endophytic bacteria of *Aloe barbadensis* Mill.
18. Comparative study of electrocoagulation and chemical coagulation in the Treatment of effluents from textile industry
19. Bio-efficacy of fluorescent *Pseudomonas* Sp., from the Cotton Rhizosphere
20. Extended spectrum ß-Lactamases (ESBLS):
21. Recent developments in ß-Lactamases and extended spectrum ß-Lactamases
22. Efficiency of microbes in contaminated industrial sludge and its relaevance for agricultural field
23. Biodegradable polymer (Polyhydroxy alkanoates) for the environment
24. Focus on endophytic bacterial efficiencies from *Phyllanthus amarus*s chmacher & thonn.
25. Incidence of agriculturally important endophytic bacteria from *Ocimum tenuifolium* Syn.
25. Exploration of biological potentials of endophytic bacteria from *Cyanodon dactylon* L.
26. Bio-efficacy of endophytic microorganisms isolated from *Zingiber officinale* Roscoe.

27. Isolation of pesticide degrading nitrogen fixing bacteria and fungi
28. Prevalence studies of extended spectrum of ß-lactamase producers
29. Degradation of nitro phenol from house waste
30. Studies on the effect of spray water pH and EC on the viability of *Verticillium Lecanii* spores and its efficacy on brinjal mealy bug (*Centrococcus insolitus*)
31. Influence of *Rhizoctonia solani* on acclimatization of *Coelogynes tricta* seedlings

- **National symposium on herbal drug research, Department of Botany, Bharathiar University, Coimbatore – 641 046 (September 25 & 26, 2008).**
  32. Antibacterial activity of extracts from certain medicinal plants.
  33. Analgesic and anti-inflammatory activity of crude ethanol extract of *Limnophila polystachyeae*.
  34. Programming of anti-diabetic potential in albino mice by using bitter melon (*Momordica charantia* L. fruit extract).
- **7th National seminar, current advances in chemical science, Department of Chemistry, Sacred Heart College, Thevara, Kochi-682 013, Kerala. (26-27thNovemeber, 2008). In proceedings, Abstract page No. 38-41,**
  35. Effect on aqueous extracts of *Stevia rebaudiana* in ethanol Induced Gastric Ulcer by using Wistar rats.
- **Association of pharmaceutical teachers of India, Guru Ghasidas University, Bilaspur-495 009, APTI-13th Annual national convention-2008. (October 3-4, 2008). Abstract No-PG-57.**
  36. Effect of Crude ethanol extract of *Capparis sepiaria* Linn. on Ehrlich Ascites Carcinoma.
- **National conference on environment science and technology, Department of Environmental biotechnology, Bharathidasan University, Tiruchirappalli-620 024. (28-29th November, 2008). Abstract No. PP-55.**
  37. Anelgesic and Anti-inflammatory activity of crude ethanol extract of *Strychnos bicirohssa* Lesch.
  38. Isolation of efficient polyethylene degrading microorganisms from Marine Ecosystem of Gulf of Mannar, India.
- **National seminar on recent trends in rural development, Department of adult, continuing education & extension, Bharathidasan University, Tiruchirappalli-620 024 (March, 30th – 31, 2009)**
  39. Biofertilizer technology: A sustainable tool for rural development.
- **National conference on antimicrobial resistance: from emerging threat to reality from 23 to25 March – 2009. Department of Microbiology & Microbial Technology, Allahabad Agricultural Institute Deemed University, Allahabad, Uttar Pradesh, India.**
  40. Antimicrobial sensitivity pattern of extended spectrum of beta lactamase and carbapenemase producing Gram-negative bacterium from clinical isolates.

- **National conference on challenges in biochemical engineering, MVJ College of Engineering, Department of Biotechnology and Chemical Engineering, Bangalore – 560 067, Karnataka. (16th – 17th April, 2009).**
  41. Exploration of polyethylene degrading potential microorganisms from marine ecosystem of Gulf of Mannar, India.
- **First Asian PGPR congress for sustainable Agriculture Acharya Ranga Agricultural University, Hyderabad, Andhra Pradesh. (June 21-24, 2009).**
  42. Studies on nutrient use efficiency of bioinoculants and biocontrol agent interactions in *Casuarina equisetifolia* (Forst.) seedlings under tropical nursery condition.
- **Chemtechnik '09, Department of chemical engineering, Sathyabama University, Rajiv Gandhi Road, Jeppiaar Nagar, Chennai, Tamil Nadu. (Aug24-25, 2009) Abstract No. 56.**
  44. Role of *Heliotropium zeylanicum* in the experimental model of inflammation in Wistar strain rats.
  45. Anti-arthritic activities of Ethanolic extract of *Commipho racaudata* (Wight & Arn) Engl. By Freund's model.
- **Srishti national level symposium by association of biomedical engineers at Chennai. (Aug31st, 2009)**
  46. Role of *Celosia polygonoids* in the experimental model of Inflammation in Wistar Rats.
- **14th annual national convention of association of pharmaceutical teachers of India (October 3rd – 4th, 2009). Lachoo memorial College of Science & Technology. Jodhpur. Rajasthan.**
  47. Pharmacognostic evaluation and anti-inflammatory activity of crude ethanol extract of *Capparis sepiaria* Linn leaves.
  48. Pharmacognostical standardization, anti-inflammatory and anti-arthritic activity of *Pupalialappaceae*.
- **National seminar on technological and regulatory aspects of herbal drug Analysis (October, 7 2009). B. R. Nahata College of Pharmacy, Mandsaur, M.P.**
  49. Pharmacognostical standardization of *Commiphora berryi* Engl.(Wight & Arn) by using WHO-Geneva procedure.
- **National Level Seminar on Recent Advances in Pharmaceutical Research (October, 9 & 10th 2009). G. Pulla Reddy College of Pharmacy. Mehdipatnam, Hyderabad.**
  50. Anti-arthritic activity of crude ethanolic extract of *Strychnos bicirohssa* induced freund's adjuvant on Wistar rats model with chromatographic analysis (HPLC).
  51. *Limnophila polystacheae*: A detailed study on pharmacognosy and anti-arthritic activity induced freund's adjuvant on Wistar rats model.

- **International Congress of the Malaysian Society for Microbiology 2009, (Penang) University of Malaya, 50603 Kuala Lumpur, Malaysia.**
  52. Production and characterization of biodegradable plastic (Polyhydroxy alkanoates) from *Bacillus* sp. isolated from the sources of sugar factory wastes.

- **British society for antimicrobial chemotherapy antibiotic resistance mechanisms, workshop for researchers to be held on 26th-27th November, 2009, Birmingam, UK.**
  53. Antibiotic sensitivity pattern, MIC determination of extended spectrum of Beta lactamases producing clinical isolates from six geographical locations in Tamil Nadu, India.

- **50th Annual conference association of microbiologists of India. Third golden era of microbiology. From 15th to 18th December, 2009 organized by National chemical laboratory- Pune and University of Pune.**
  54. Antimicrobial susceptibility pattern of extended spectrum of beta lactamase producing gram negative bacterium from clinical isolates - South India.

- **National Conference on Herbal Drug Standardization, held at Manonmaniam Sundaranar University, Tirunelveli. (23rd Dec, 2009).**
  55. *Capparis sepiaria* Linn. - pharmacognostical standardization by WHO-Geneva procedure with the chemical compounds identification.
  56. Effect on ethanolic extract of *Steviare baudiana* Bertoni. in anti-cancer activity of Erlisch's ascites carcinoma induced mice.
  57. An evaluation on *Vitex negundo* in Ibuprofen Induced Hepatotoxicity Study.

- **An International symposium on emerging trends in Nano-biotechnology, held at Acharya Nagarjuna University, Guntur, Andhra Pradesh, (19-21st Dec, 2009).**
  58. A traditional medicobiological approach with biochemical techniques on *Capparis sepiaria* Linn. for the debilitating disease of *Rheumatoid arthritis*.

- **International Symposium on Trace Organic Pollutants in the Environment (ISOTOPE), During 23rd January 2010, Department of Environmental Biotechnology, School of Environmental Sciences, Bharathidasan University, Tiruchirappalli - 620 024.**
  59. Biosorption of cadmium from wastewater using *Pseudomonas* sp.

- **In international conference on climate change in bioresources management, Department of Biotechnology, Bharathidasan University, Tamil Nadu, India. (Feb, 9-12, 2010).**
  60. Phenotypic detection and antimicrobial sensitivity pattern of extended spectrum of beta lactamase producing *Escherichia Coli* and *Klebsiella* sp. from clinical samples.
  61. Exploration of polyethylene degrading potential bacteria from marine ecosystem of Gulf of Mannar, India
  62. Effects of climate changes on plant viruses
  63. Climate change impact on soil fertility
  64. Removal of volatile organic compounds – Phytoremediational Approach
  65. Rhizosphere carbon reaches atmosphere and causes climatic changes
  66. The Impact of global warming on crop Yields
  67. Climate changes in horticultural crops
  68. Impact on climate change activity in biofertilizers treated maize crop
  69. A perspective focus on impact of climatic change on intensive crop cultivation
- **International conference on mountain biodiversity - conservation and sustainable utilization" during 13 - 15 March 2010 at Doon University, Dehradun.**
  70. Influence of Seasonal Patterns 0n the *Ophiorrhiza mungos* L. Rhizosphere in Western Ghats Ecosystems
- **International conference on environmental pollution, water conservation and health duringJuly 29-31, 2010 at Department of Zoology, Bangalore University, Bangalore-560 056.**
  71. Isolation of chromium resistant plant growth-promoting bacteria from an electroplating industry polluted soils and their potential abilities on solubilising insoluble phosphates.
- **Second national conference on "Bioprospecting of marine resources with special reference to marine natural products and drug discovery" during August 25-27, 2010 at Department of Oceanography and Coastal Area Studies, Alagappa University, Thondi Campus, Thondi, Ramnad District, Tamil Nadu.**
  72.*Heliotropium zeylanicum* (Burm.)L. – Pharmacognostical standardization by WHO guidelines.
- **National conference on herbal medicine (Sep: 8th& 9th, 2010). Organized by Department of Botany, Bharathiar University, Coimbatore, Tamil Nadu, India.**
  73. Isolation, characterization and anti-bacterial evaluation on long chain fatty acids from *Limnophila polystachya* Benth.

74. Hepatoprotective activity on *Commiphora* species and its polyherbal formulation.

❖ **British society for antimicrobial chemotherapy antibiotic resistance mechanisms, workshop for researchers to be held on 25th-26th November, 2010, Birmingam, UK.**

75. Trend of extended spectrum ß-Lactamase producing gram negative bacterium from various location of Tamil Nadu: New report from four locations: An alert for infection control.

❖ **21st Annual international conference on "Soil, Water and Air" organized by The association for environmental health and sciences (AEHS) foundation, San Diego, California. (March 14-17, 2011).**

76. Screening of chromium resistant – bacteria for plant growth promoting activities.

❖ **International Symposium on "Environmental Risk Assessment" organized by Unit of Toxicology, Department of Zoology, Bharathiar University, Coimbatore on October 17-19, 2011.**

77. Laudable lineaments of Cr^{6+} resistant bacteria isolated from an electroplating industry polluted soil for plant growth promoting activities.

❖ **International conference on "New Horizons in Biotechnology" jointly organized by The Biotech Research Society, India (BRSI) and National Institute for Interdisciplinary Science and Technology, CSIR, Trivandrum on November 21-24, 2011.**

78. Intrinsic characteristics of Cr^{6+}resistant bacteria isolated from an electroplating industry polluted soil for plant growth promoting activities

❖ **3rd International conference on medicinal plants and herbal medicines. University of Colombo, Colombo, Sri Lanka. December, 19-21, 2011.**

79. A Pharmacognostical Standardization on *Pupalia lappacea* (Linn.) Juss. (Amaranthaceae) by using WHO guidelines (Geneva Procedure) and Toxicity Studies using OECD Guidelines.

❖ **National conference on microbiological research in 21st century (Feb: 27th& 28th, 2012) Organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.**

80. Sequencing and structure analysis of *Bacillus thuringiensis* Pesticidal crystal (Cry1ac and Cry2ab) Proteins: An *in-silico* Approach
81. Antagonistic activity of chitinolytic *Streptomyces* on maize plant infecting pathogen – *Fusarium* sp.
82. Microbial bioinoculant potential on the growth improvement of *Curcuma longa* l. under tropical nursery conditions
83. Endophytic organism to control the multi-drug resistance bacteria
84. Exploration of rhizosphere soil bacteria for antifungal activities against Phytopathogenic Fungi-*Fusarium moniliforme*.

85. Microbiological and physiochemical analysis of different types of water in Neyveli industrial area
86. Phytoremediation: uses of plant growth promoting bacteria to clean up metal-contaminated soils – A review
87. Biodegradation approaches to fluoride contaminated soil and water in Dharmapuri and Krishnagiri district
88. Identification of endosulfan degradation efficient microbial strains from contaminated area
89. Exploration of Polyhydroxy alkanoates producing bacteria from rubber plant rhizosphere region
90. Isolation and characterization of laccase production by white rot fungi in dye degradation
91. Exploration of high-density polyethylene degrading fungi isolated from plastic wastes dumping places
92. Analysis of genetic variability and antibiotic sensitivity in *Salmonella* sps. from Water environment using random amplified polymorphic DNA (RAPD)
93. Screening of potential therapeutic bacteriophages from the hospital effluent to treat ESBL and MDR pathogens
94. Antivibrial activity and bioactive chemical compound analysis of marine cyanobacteria
95. Molecular cloning of serine/threonine protein kinases (STPKs) from *Mycobacterium tuberculosis* (Mtb)
96. Chemical compound identification and Anti-mycobacterial Activity of ethanolic extract of *Capparis sepiaria* Linn. Against *Mycobacterium butyricum* Syn. *smegmatis*.

❖ **International conference on advances in biotechnology and patenting (ICABP-2013) Date: Feb. 18 - 21, 2013. Department of Biotechnology and Genetic Engineering, Bharathidasan University, Tiruchirappalli-24, India.**

97. Elimination of seed sprouts salmonella pathogens through bacteriophages –A sustainable biocontrol approach
98. Screening of plant growth promoting rhizobacteria from the rhizosphere of *Helianthus annuus*.
99. Biodegradation of keratin by keratinolytic microorganism isolated from the tannery wastes.
100. Comparative analysis of root exudates between monocot and dicot plant rhizosphere soils.
101. Studies on glomalin protein level in different crops and soil types.
102. Evaluation of plant growth promoting bacterial activity in the rhizosphere of *Vigna unguiculata* L.
103. Comparative metagenomics analysis of bacterial communities between Bt and non-Bt cotton bioinoculants treated rhizosphere soils by 454 Pyro sequencing

104. Biological synthesis of silver nanoparticles using rhizosphere soil bacterial strain KN8(2)
105. Bacteriophages - An alternative treatment for ESBL producing bacterial pathogens
106. Evolution of bioinoculant efficiency in vegetable crop of tomato (*Lycopericon esculatum*) and onion (*Allium cepa*)
107. Phytochemical screening of *Pupalia lappacea* Juss. (Amaranthaceae) through chromatographic and spectroscopic analysis
108. Studies on high density polyethylene (HDPE) degrading efficient bacteria from Marine ecosystem
109. Identification of "iturinA" genes in surfactant producing bacterial species from oil contaminated soils
110. Leghaemoglobin concentration in various nodulating plants
111. Exploration of groundnut rhizosphere bacterial antagonistic compounds for the control of late leaf spot disease.

❖ **National Seminar on Cutting Edge Microbial Research & Challenges. February 25-26, 2013. Department of Microbiology, Bharathidasan University, Tiruchirappalli-24, India.**

112. Biofilm role in rhizoplane function.
113. Biofertilizer efficacy of antagonistic bacterial isolates from groundnut rhizosphere.
114. Biosensors in food bacterial pathogens.
115. Biotechnological tools to treat tannery waste.
116. Studies on glomalin protein level in different crops and soil types.
117. Analysis of plant morphometric, soil physico-chemical profiles and isolation of metagenomic DNA between Bt and non-Bt cotton in *Azospirillum lipoferum* treated rhizosphere soil.
118. Isolation and identification of efficient antagonistic bacteria from rice rhizosphere soil to control the phytopathogenic fungi.
119. Isolation and identification of *pseudomonas* sp. causing bacterial speck of tomato (*Lycopersicon esculentum*) and their *in vivo* control by bacteriophages.
120. Biocontrol of wild disease in tomato (*Lycopersicon esculentum*) using *Trichoderma viride* on *in vitro* condition.
121. Root exudates interactions in rhizosphere.
122. Isolation and screening of high-density polyethylene (HDPE) degrading efficient bacteria from the coastal areas of Kanchipuram district.
123. Assess the biofilm formation ability in PGPR from sunflower rhizosphere soil.

❖ **International Conference on Advances in Medical Sciences. April 16th-18th, 2013. Kuala Lumpur, Malaysia.**

124. Cloning and sequence conformation of serine/threonine protein kinase PknL of *Mycobacterium tuberculosis*.

❖ **National Conference on New Opportunities and Challenges in Microbial Research. September 5-6th, 2013. Department of Microbiology, Bharathidasan University, Tiruchirappalli-24, India.**

125. Detecting and characterizing the N-acyl-homoserine lactone signal molecules from mycorrhizal helper bacteria Isolated from sunflower rhizosphere soil.
126. Functional annotation inference in metagenomic Pyro sequencing data between *Bt* and Non-Bt cotton rhizosphere soil: MG-RAST.
127. Variation of NPK concentration in treated rhizosphere soil in *Allium cepa*.
128. Screening of potential rhizosphere bacteria for their multiple plant growth promoting activities Isolated from the rhizosphere of *Vigna unguiculata* (L.)
129. Biodegradation of HDPE using bacterial isolate from Pichavaram Mangrove Forest.
130. Screening of HDPE degrading bacteria from waste dumping site of Tamil Nadu.

❖ **The 5th EMBO Meeting 2013. September 21-24th, 2013, Amsterdam, The Netharlands.**

131. Cloning, expression, purification and characterization of serine/threonine protein kinase Pknl of *Mycobacterium tuberculosis* (Mtb) from *E. coli*.

❖ **Biogalaxia, Department of Microbial Biotechnology, Bharathiar University. 3rd October 2013.**

132. Comparative efficiency of agrochemical and biofertilizer treatments in heavy metal remediation of *Curcuma longa* L.

❖ **National Conference on Ecotechnologies for Wastewater Treatment: Present Challenges and Future Horizons, held during 21-22 January, 2014. Department of Environmental Sciences, Bharathiar University, Coimbatore.**

133. Isolation and characterization of plant growth promoting rhizobacteria from maize soil and its potential in heavy metal resistant and antibiotic resistant.

❖ **National conference on "Biodiversity Conservation: Status, Future and Way Forward" held on July 19th and 20th 2014, organized by National Academy of Biological Sciences, Chennai and Department of Biotechnology, K.S Rangasamy College of Technology, Tiruchengode, Erode, Tamil Nadu.**

134. Exploration of endophytic microorganisms from selected medicinal plants and their control potential to multidrug resistant pathogens.

135. Proportional analysis of leghaemoglobin concentration in various nodulating plants and Intuitive *Rhizobium* species.

❖ **International Conference on "Emerging Challenges in Biotechnology Human Health & Environment" and "8th Annual convention of Association of Biotechnology and Pharmacy" held on December 18th to 20th 2014, organized by Devi Ahilya University, Indore, Madhya Pradesh.**

136. Antibacterial and anti-biofilm activity of bacteriophages against *Salmonella sp*.
137. Plant growth promoting rhizobacterial efficacy in *Vigna unguiculata* (L.) Walp.
138. Quorum sensing molecules N-AHSL on biofilm formation of mycorrhizal helper bacteria isolated from *Helianthus annuus* rhizosphere soil.
139. Biodegradation of HDPE using fungal isolate from coastal area of Tuticorin District.

❖ **7th International Congress on Environmental Research" held on 26 - 28 December 2014, organized by Journal of Environmental Research and Development, Bhopal (India) and R.V. College of Engineering, Bangalore (India).**

140. Assessment of bacteria intended micronutrient solubilization from cereals crop rhizosphere.

❖ **National symposium on "Mycological Research- Emerging Trends, Applications and Prospects and 41st Annual Meeting of Mycological Society of India" held on February 23- 24, 2015, organized by Punjabi University, Patiala.**

141. HDPE degradation by *Aspergillus* species isolated from marine source.

❖ **National Seminar on "Recent Trends in Life Sciences" held on 25th February 2015, organized by P. G. Research Department of Biotechnology, Jamal Mohammad College, Tiruchirappalli.**

142. Isolation and characterization of Zn tolerant plant growth promoting rhizobacteria from metal contaminated soils.
143. High-density polyethylene degrading potential bacteria from Waste Materials dumping sites of Tamil Nadu.

❖ **National Conference on "Recent Advances in Industrial Biotechnological Skills and Development" held on March 30th & 31st, 2015 organized by PG & Research Department of Botany, Thiyagarajar College, Madurai.**

144. Analysis of glomalin protein level in different crops rhizosphere soils.
145. Rhizosphere profile of monocot ad dicot plants using biochemical and RFLP analysis.

❖ **Fourth International Conference on Natural Polymers and Biomaterials held on 10-12 April 2015, Organized by International Unit on Macromolecular Science and Engineering (IUMSE), Mahatma Gandhi University, Kottayam, Kerala, India.**

146. Identification and characterization of biopolymer produced by *Bacillus* sp. Isolated from sugarcane waste sources.
147. Production and characterization of biopolymer from Bacillus cereus VRKCM.

- **11th International Food Database Conference on Food Composition and Public Health Nutrition, at National Institute of Nutrition (ICMR) Hyderabad, India, along with Food and Agricultural Organization (USA), International Network of Food Data System and ICMR, on 3 – 5 November 2015.**
  148. Effect of phytic acid on zinc metabolism in streptozotocin induced diabetic mice.
- **11th National Research Scholars Meet Life Sciences, at Advanced Centre for Treatment, Research and Education in Cancer (ACTREC) Navi Mumbai, India, on 17 - 18 December 2015.**
  149. Effect of phytic acid on zinc metabolism in streptozotocin induced diabetic mice.
  150. Exploration of HDPE degrading bacteria from marine environment.
  151. Crystal protein profiling of *Bacillus thuringiensis* isolated from Bt cotton rhizosphere.
  152. Standardization of biopolymer from seaweed associated bacteria.
  153. Phage cocktail for the removal of *Citrobacter fruendii* RBLN5 biofilm.
  154. Bioremediation of triclosan through intrinsic bacteria from cosmetics substance expulsion environmental sites

- **International Conference on Biotechnology and Biodiversity, organized jointly by Department of Biotechnology and Genetic Engineering, Bharathidasan University, Tiruchirappalli and Department of Biotechnology, Periyar Maniammai University, Tanjure, Tamil Nadu, India, on 25 - 27th February 2016.**
  155. Effect of phytic acid on Glucose metabolism in streptozotocin induced diabetic mice.
  156. Exploration of HDPE degradating bacteria from marine environment.
  157. Crystal protein profiling of *Bacillus thuringiensis* isolated from *Bt* cotton rhizosphere.
  158. Standardization of biopolymer from seaweed associated bacteria.
  159. Phage cocktail for the removal of *Citrobacter fruendii* RBLN5 biofilm.
  160. Bioremediation of triclosan through intrinsic bacteria from cosmetics substance expulsion environmental sites.
  161. Isolation and partial characterization of bioactive metabolites from *Bacillus safensis* VRKK2 with potential to control bacterial blight disease in *Vigna unguiculata* (L.) *walp*.
  162. Characterization of arbuscular mycorrhizal fungi from sunflower rhizosphere soil - A molecular approach.
- **National conference Emerging Biomaterials. Department of Nanobiotechnology, Bharathiar University, Coimbatore, Tamil Nadu, India. October, 19 – 21, 2016.**
  163. Standardization of Biopolymer production from Sea weed associative Bacteria.
- **International Conference on Environment and Health in Changing Climate (Re-emerging Diseases & Human Health Risks). Department of Environmental Biotechnology, School of Environmental Sciences,**

Bharathidasan University, Tiruchirappalli, Tamil Nadu, India. September, 14-16, 2016.

164. Biomineralization of an organophosphorus pesticide, Monocrotophos, by soil bacteria.

- **World Conference on Tamil Studies, Organised by London Tamil Development council, London, UK, on 11th February 2017.**

165. Scientific validation and documentation of Tamil traditional culture based scientific information.

- **International Conference on 'Advanced Functional Materials for energy, environment and Biomedical Applications at Madurai Kamaraj University, Madurai, Tamil Nadu, India, on December, 11-12, 2017.**

166. Physical and Chemical Properties of Polyhydroxyalkanotes Biodegradable Polymers Produced in *Bacillus cereus* RBL6.
167. Isolation and Characterization of *Bacillus thuringiensis* from Bt cotton Rhizosphere soil and Analyze its larvicidal toxicity against the Mosquito vector *Anopheles*.
168. Pesticide tolerant plant growth promoting rhizobacteria isolated from pesticide contaminated sites.

- **International Conference on "Phytomedicine" at Bharathiar University, Coimbatore, Tamil Nadu, India, on August 29-31, 2018.**

169. Exploration of Endophytic Fungi from Medicinal Plants and their Controlling Potential against Microbial Pathogens
170. Agrochemicals Tolerant Bioinoculants Efficiency in *Vigna mungo* L. Hepper Growth under *in vivo* conditions
171. Comparative Analysis of Secondary Metabolites in free living *Rhizobium* and Nodules to Control *Fusarium* Wilt in Cowpea (*Vigna Unguiculata* L.).

- **International Conference on Recent Trends in Bioplastics 2019 (RTB -2019), at Alagappa University, Karaikudi, Tamil Nadu, India, on 9th -10th December 2019**

172. Gunasekaran S, Ramya. R and Rajesh Kannan.V. Production of Cyanobacteria from Cyanobacterial PHA.

- **National Conference on Innovative Microbial trends and Challenges in the environment (IMTCE)" at Kuvembu University, Shivamogga, Karnataka, India, on 2nd March 2020**

173. Tamizharasan K, Ramya. R and Rajesh Kannan.V. Antibacterial activity of sulfated polysaccharides from marine seaweed Dictyota sp. to act against plant bacterial pathogens.

- **National Conference on Research Methodology for Life Sciences (RESMET - 2020)" at Karpagam Academy of Higher Education, Coimbatore, TamilNadu, India. on 4 th -5 th March 2020**

174. Naveen T, Ramya. R and Rajesh Kannan.V. Efficiency of Probiotics from Plastic Degrading bacteria by *in vitro* and *in vivo* Condition.
175. Rajesh K, Ramya. R and Rajesh Kannan.V. Alternative Tool to Combat the Bacterial Plant Pathogens Through Bacteriophage.

176. Shahanaz Begum N and Rajesh Kannan.V. Characterization of Pathogenicity Gene Analogs in Colletotrichum falcutum Causing red rot Disease in Sugarcane.

❖ **National Seminar on "Frontiers in Biological Innovations for Resource Management, Patents and Entrepreneur Development "at Jamal Mohammed College, Tiruchirappalli, Tamil Nadu, India, on 10th and 11th March 2020.**

177. Kayalvizhi R and Rajesh Kannan. V. Exploration of Microplastic Accumulation Confirmation in Marine Fishes Gut System.
178. Mukil Sukitha P and Rajesh Kannan. V. Psidium guajava. Linn leaf hydrolysate as a novel media for the production and application of single cell protein from *Saccharomyces cerevisiae*.

❖ **PLACROSYM XXIV. International Symposium on Plantation Crops. Indian Cardamom Research Institute, Chochin. (December 14th -16th, 2021).**

179. Integrated approaches of microbial bioinoculants and mulching to enhancing the soil nutrient status and yield in turmeric (*Curcuma longa* L.)

❖ **International Conference on Microbiome and Synthetic Biology (ICMSB 22). 4th Annual Meeting on Society of Chemical and Synthetic Biology at Department of Microbiology. Bharathidasan University, Tiruchirappalli-620 024. Tamil Nadu, on 22nd and 23rd September, 2022.**

180. Kayalvizhi. R. and V. Rajesh Kannan. Investigation of microplastic accumulation in habitual usage of organic and inorganic fertilizers.
181. Shahanaz Begum. N. and V. Rajesh Kannan. Metagenomic analysis of sandalwood rhizosphere microbiome.
182. Parvatham. K. and V. Rajesh Kannan. Endophytic influence against skin disease.
183. Mukil Sukitha. P. and V. Rajesh Kannan. Psidium guajava L. leaf extract as nutraceutical drug against various diseases.
184. Dharanika. R. and V. Rajesh Kannan. Analysis of Aspergillus Sp. Plant growth promoting properties and their responsible compounds.

❖ **National Conference on Phytomedicine (NCPM 2023) organized by Department of Botany, Bharathiar University during 5 & 6 January 2023.**

185. R. Kayalvizhi, and V. Rajesh Kannan. Assessment of Microplastics Accumulation in Common Edible Plant *Amaranthus spinosus* L.
186. Parvatham Kalyanasundaram and V. Rajesh Kannan. Analysis of Endophytic Fungi from *Acalypha indica* and its Influence against *Candida tropicalis*.

❖ **International Conference on Recent Trend in Microbiology at Alagappa University during 5 & 6 January 2023.**

187. P. Mukil Sukitha and V. Rajesh Kannan. Exploration of involvement of thermal condition in power generation on plant microbial fuel cell using *Cyperus rotundus* plant.

- **National Conference on Novel Approach to Mitigate Emerging and Re-emerging Diseases organized by MBSI during 27 & 28 January 2023.**

  188. K. Parvatham and V. Rajesh Kannan. Isolation of endophytic fungi from *Acalypha indica* and antifungal potency in *in silico* confirmation on model organism of *candida tropicalis*.

- **Two weeks "Science Academics' Refresher Course" on Biology in 21st century aspects and prospects organized by Department of Botany at Sri Venkateswara University, Tirupati on 18th to 30th January 2023.**

  189. P. Mukil Sukitha and V. Rajesh Kannan. An insight into power generation on plant microbial fuel cell.

- **International workshop on "Combating Plastic pollution in Terrestrial Environment" organized by JSS Academy of Higher Education and Research at Mysore on 14th and 15th March 2023.**

  190. P. Mukil Sukitha and V. Rajesh Kannan. Microbiological deterioration and degradation of synthetic polymeric material in soil fertility.

- **National Conference on "Sustainability through Noni, Medicinal Plants, Microbes and Biomolecules" Organized by Madurai Kamaraj University at Madurai on 27th to 28th November 2023.**

  191. Parvadham K, Gokilapriyavarthini K, and Rajesh Kannan. V. Characterization of potent bioactive compounds from Chrysopogon zizonioides endophytic Actinomycetes against Dermatophytic fungi.

  192. Dharanika R R and V. Rajesh Kannan. Analysis of *Aspergillus* sp. Plant growth promoting properties and perform through *In vitro* and *In vivo* experiment.

  193. Atsaya Alagarsamy, Ramya Rajendran and V.Rajesh Kannan. Plant Growth Promoting Rhizobacteria to Enhance the soil fertility through Phytoremediation Process.

- **International Conference on "Microbiological Research: Current Challenges and Future Perspectives (ICMR:CCFP-2024)" Department of microbiology, Bharathidasan University, Tiruchirappalli-620 024.**

  194. Krishnakumar. V, Ramesh. N, Arivudai nambi.S, Panneerselvam.P, V.Rajesh Kannan. Cloning, Expression and Purification of Cyclopropane mycolic acid Synthase 3 (PcaA) of *Mycobacterium Tuberculosis* (Mtb) from *E.coli*.

  195. Tamilvani. T and V.Rajesh Kannan. Minimizing Kitchen waste Volume by using waste decomposer potentials.

196. Sumathi N and V. Rajesh Kannan. Screening of Bacterial compot from spoiled vegetables and the physicochemical characterization.

197. Geetha. M and V.Rajesh Kannan. Enrichment of Vermicompost by using Nitrogen fixing bacteria.

198. Kuppusamy Sathishkumar and V. rajesh Kannan. Bio-electrokinetic enhanced Remediation of Tannery Effluent Contaminated Soil.

199. Dharanika Rajendran, Parvatham Kalyanasundaram, Karthikraja Kannan and V. Rajesh Kannan. Stability of Endophytic Bacteria in Plant Growth Promotion.

200. Alagarsamy Atsaya, Rajendiran Ramya, Parvatham Kalyanasundaram, Kuppusamy Sathishkumar and V. Rajesh Kannan. Plant growth promoting Rhizobacteria assisted Phytoremediation: Sustainable Approach to Improve Soil Fertility.

201. Pasupathi Mukil Sukitha, Kalyanasundaram Parvatham, senthilkumar Pavithra and V. Rajesh Kannan. Preliminary Phytochemical Analysis of Various Medicinal plants and their activity against *ESKAPE* strains.

202. Samikkannu Indhumathi, Kalyanasundaram Parvatham and V. Rajesh Kannan. Antibacterial Efficacy of Endophytic Fungi from *Plectranthus amboinicus*.

203. Senthilraja P and V. Rajesh Kannan. Decoding Gastric cancer Pathogenesis: Systems biology, Gene Networks and Mitochondrial Pathways.

204. Parvatham kalyanasundaram and V. Rajesh Kannan. Evaluation of etiological Prevalence of Dermatophytosis in Pudukottai District, Tamil Nadu.

205. Shahanaz Begum Nazir Ahamed, Narmatha saravanan and V. Rajesh Kannan. Registering Microflora incidence on building and tree hanging plants Rhizoplane.

Seminar/Symposium/Workshop Participation

- **Recent Trends in Biological Sciences**. (16.03.1998). Department of Zoology, Bharathiar University, Coimbatore - 641 046.
- Workshop on **Environmental Status of Rivers in Tamil Nadu**. (March 26-27,1999) Bharathiar University, Coimbatore - 641 046.
- **National Workshop on Molecular Biology**. (March 14-19, 2000). Department of Biotechnology, Bharathidasan University, Tiruchirappalli – 620 024.
- **National Level Symposium in Bioinformatics.** Bharathiar University, Coimbatore – 641 046.

- **National Level Workshop of the Aspect of Remote Sensing.** Bharathidasan University, Tiruchirappalli – 620 024.
- **National Workshop on Catalysis in Organic Transformations.** (October 20-21, 2016). School of Chemistry, Bharathidasan University, Tiruchirappalli – 620 024.

Resource Person

- **Seminar talk** in International Practical course of Heterologous gene expression and analysis, title of **"Cancer Prevention by natural compounds"**, Virology Research Group, (November, 2007) International centre for Genetic engineering and Biotechnology, New Delhi, India.
- **Contributed Talk** in Biological Sciences Refreshers course entitled **"Biofertilizers – A general vision"** in Academic staff college (July, 2008), Bharathidasan University, Tiruchirappalli – 620 024.
- **Contributed Talk** in Current issues for Sustainable Research and Innovation in Microbial Biotechnology (1-4 December 2009), entitled **"Production of Biodegradable Plastics"** in International Congress of Malaysian Society for Microbiology, Parkroyal Penang Hotel, Malaysia.
- **Invited Talk** on Sustainable income generation through training on production and application of biofertilizers and vermicompost for rural women (October, 09 2009) entitled **"Microbial Biofertilizers Technology – A Sustainable Tool for Rural Development"** in Thiyagarajar College, Madurai – 625 009.
- **Contributed Talk** in LIFEMOTIVE CLUB (August, 26 2009) entitled **"Biofertilizers – A sustainable tool for green revolution"** in School of Life Sciences, Bharathidasan University, Tiruchirappalli – 620 024.
- **Contributed Talk** in National seminar on recent trends in rural development, Department of adult, continuing education & extension, entitled **"Biofertilizer technology: a sustainable tool for rural development"** Bharathidasan University, Tiruchirappalli-620 024 (March, 30th – 31, 2009).
- **Contributed Talk** in Green Revolution in Social Views. Biological sciences workshop. Department of Biotechnology, Anna University, Trichy.
- **Session Chairperson:** Herbal Product & Intellectual Property Rights. National Symposium on Herbal Drug Research. Department of Botany, Bharathiar University, Coimbatore – 641 046.
- **Invited Talk** Sustainable Plant Nutrient Management. Young Students Scientist Programme (YSSP - 2012). Thiyagarajar College, Madurai – 625 009.
- **Special lecture** on the topic "Rhizosphere Biology: Impact of Food Security and Ecosystem Integrity. TEQIP II sponsored Faculty Development Programme on Multidisciplinary Perspectives for Pharmaceutical, Life Science Educators and Researchers. Centre for excellence in nanobio translational research, Department of pharmaceutical technology, Anna University, BIT campus, Tiruchirappalli.

- **Delivered Keynote speech** in "Microbial Biopolymers: Future Source of Biocompatible Material in Regenerative Medicine" at International Conference on World Congress on Preventive and Regenerative Medicine (WCPRM-2014), Taiwan held at November 4 -7 2014, organized by Chientan Youth Activity center, Taipei, Taiwan.
- **Plenary lecture** on "Rhizosphere: As a hot spot of biodiversity?" at "National Seminar on Biodiversity Conservation and Sustainable Utilization" (NSBCS-2017). Organized by Department of Botany, Bharathiar University, Coimbatore – 641 046. (20th & 21st March, 2017).
- **Special lecture** on the topic "Rhizosphere Biology: Impact of Food Security and Ecosystem Integrity. Department of Microbiology, JJ College for Arts & Sciences, Pudukkottai. (July 28, 2017).
- **National Science Day Celebrations Special lecture** on the topic "Scintific Information in Tamil Literature". NSS Programme, BIT Campus, Anna University, Tiruchirappalli. (February 27, 2018).
- **Resource Person** in Refresher Course of Botany (ID), UGC-Human Resource Development Centre, Bharathiar University, Coimbatore. 13.9.2019 @ 10 am to 1pm.
- **Resource Person** in Refresher Course of Biological Sciences (ID), UGC-Human Resource Development Centre, Bharathiar University, Coimbatore. 13.9.2019 @ 2.00 pm to 5pm.
- **Invited Talk**: One day national Seminar on "Current Scenario in Life Science Research" on 31st October 2019 at Govt. Arts and Science College, Kozhinjampara, Organized by Department of Microbiology.
- **Invited Lecture** on Rhizosphere Research: Agroecosystem and Food Security Integrity at Department of Botany, Jamal Mohamed College, Tiruchirappalli.
- **Special Lecture** on Microbial Science and Technology: Impact in human life, for celebration of National Science Week in India's Science and Technology Achievements in 75th years of Independence (22-28 February, 2022) at Bishop Heber College, Tiruchirappalli. Organised by Tamil Nadu Science & Technology Centre, Tamil Nadu Astronomical Science Society, Bishop Heber College, Tiruchirappalli and Ariviyal Palagai.
- **Invited Talk** on Rhizosphere: A hot spot of Microbial Diversity? (19.5.2022) at Department of Microbiology, MR Government Arts and Science College, Mannargudi.
- **Special lecture** on 75th Independence Day Celebration (10.8.2022) entitled "Environment and Social Responsibility" at Government Higher Secondary School, Mathur, Pudukkottai District.
- **Chief Guest and Special Lecture** on "Our World under Microbes?" Tamil Nadu State Council for Science and Technology sponsored Inservice Training to Science Teachers of Perambalur District, (21.10.2022) Organized by

Department of Physics, Government Arts and Science College, Veppanthattai, Perambalur District.

- **Invited Talk** on Excellence of Bio-familiarity for Human Well-being (17.3.2023) at Two days International Multidisciplinary Conference on Research in Contemporary Era, Arasu College of Arts & Science for Women, Manmangalam, Karur.

Radio Talk

- **Popular Talk** in Tiruchirappalli All India Radio on the Program of "Science Wonder" (Ariviyal Vinthai) in the title of "Importance of Rhizosphere Research" (Verchuzhal Aivin Avasiam) on the mode of Tamil.
- **Popular Talk in** Tiruchirappalli All India Radio on the special Program of "World pollution control day of December 2nd 2010" in the title of "Pollutants – not particles" (Thoosalla Maasu) on the mode of Tamil.
- **Interactive Talk** in International Broadcasting Corporation Tamil [IBC Tamil-Radio (14.02.2017 at 6:00 to 7:00 pm)] In London, UK. An hour live programme. Topic – Scientific information in Tamil Literature.

Television Talk

- **Interactive Talk** in International Broadcasting Corporation Tamil [IBC Tamil-Television (14.02.2017 at 8:00 to 9:00 pm)] In London, UK. An hour live programme. Topic – Scientific information in Tamil Literature.

Significant Research Contribution

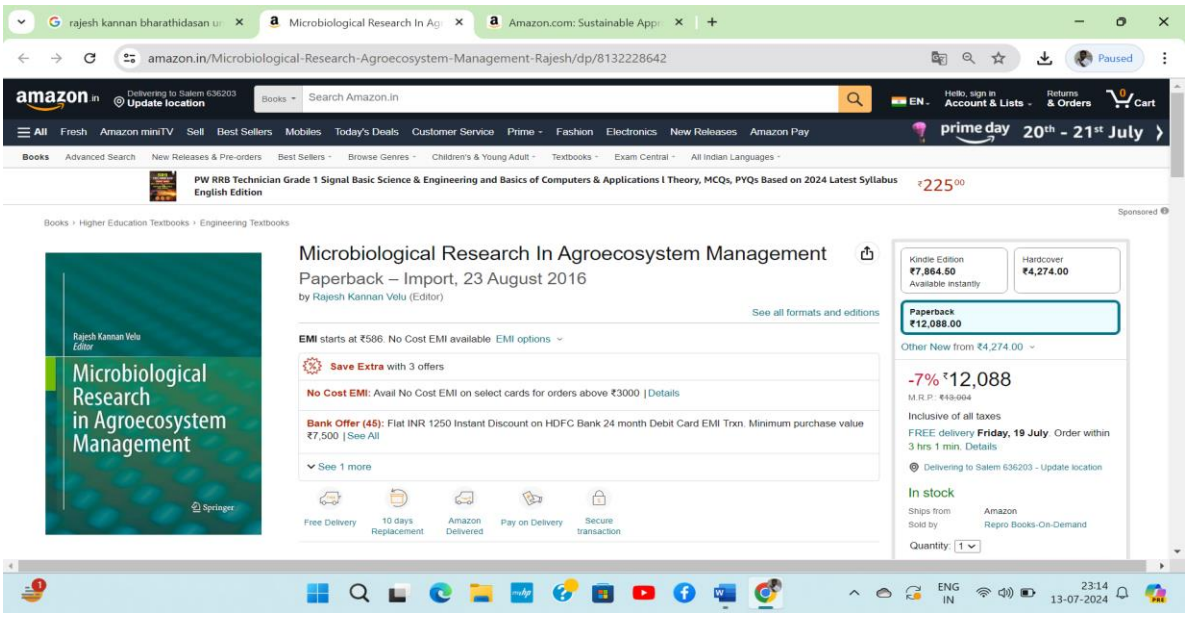
In India, more than two decades of my research has been focused on the impact of agrochemicals on microbial activities in tropical agriculture field as well as nursery conditions, it has been demonstrated that the agrochemical residues doing a significant role in the system of food web and destroy the rhizosphere environment. Remedial measures to mitigate the impact agrochemicals residues culminate in the combined plant microbe interaction, which can positively influence the natural ecosystem. In addition, minimizing the man-made chemicals like polyethylene and industrial effluents through microbe mediated process. Plant microbe interactions can be induced through a variety of mechanisms including fixing and solubilizing process of nutrients by different classes of microbes. However, the existing challenging to involve the current developments in sustainability rational exploitation of soil microbial activities and the use of less expensive through less bioavailable sources of plant nutrients like rock

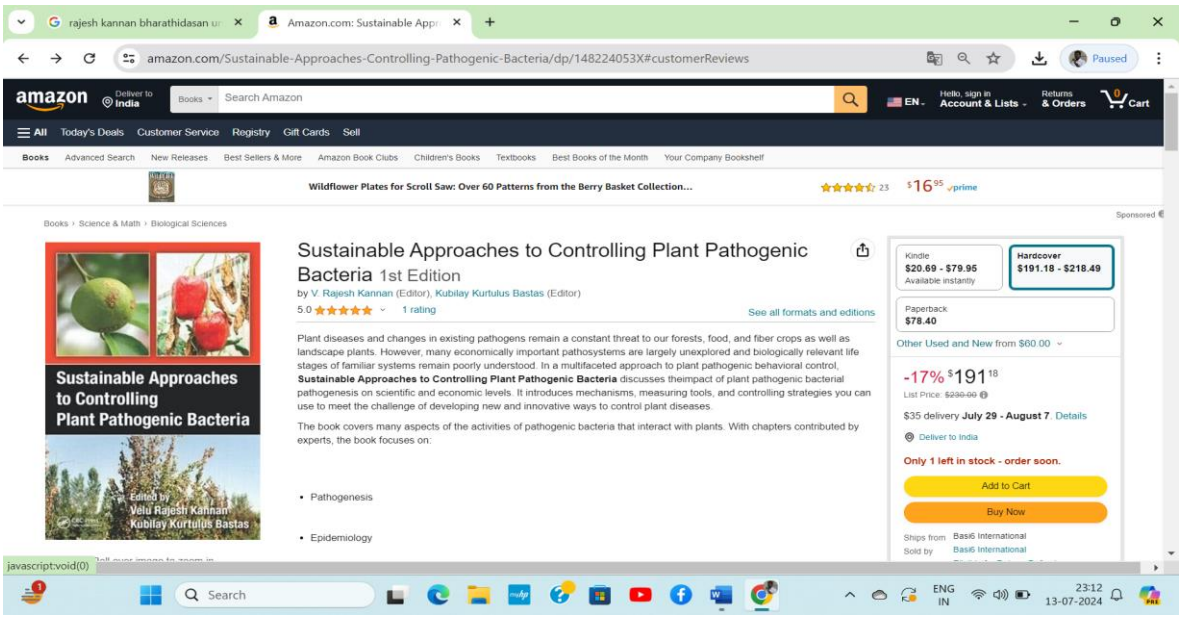
phosphates hampered the progress, which may be made available by microbiologically mediated processes such as:

- Improvement of seedling quality of certain forest tree species through inoculation of AM fungi and N_2 fixing microbes;
- Influence of AM fungi, nitrogen fixing (*Rhizobium*, *Frankia*, *Azospirillum*) and phosphate solubilizing microbes (PSM) on the quality and field performance potential assessment of seedlings in certain nodulating plant species;
- Assessment of efficacy and compatibility among the biofertilizers and biocontrol agents (*Trichoderma*) in the rhizosphere of certain nodulating plant species;
- Wastelands development through biofertilizers;
- Impact of biofertilizers on the quantity and quality of active principle compounds in medicinal plants;
- Polyethylene, electroplating and effluent degraded potential microbes were maintenance;
- Maintenance of characterized multigenerational antibiotic resistance clinical isolates;
- Metagenomic and quorum sensing approaches to rhizosphere functioning; and
- Genetically modified crops adaptation to native agroecosystems through rhizosphere engineering technologies.

The above work and the findings also have a significant social and economic relevance, which include contaminated land reclamation as well as build up the soil nutrients with adequate levels. In future, plant-microbe interactions for molecule & gene signaling (i.e. Quorum sensing approach to mycorrhizae helper bacteria) based research findings would be base-line for achieving the sustained ecological phenomenon of nature-agriculture-human-health.

Edited Books @ online market





Interview @ International Broadcasding Corporation, London

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