Dr. D. DHANASEKARAN
Professor and Head

Contact

Address : Department of Microbiology
Bharathidasan University
Tiruchirappalli – 620 024
Tamil Nadu, INDIA
Mobile : +91-9486258493
mail(s) : dhansdd@gmail.com,
ddhanasekaran@bdu.ac.in
https://orcid.org/0000-0002-6391-1464
https://www.researchgate.net/profile/Dhanasekaran_Dharumadurai2/publications
https://scholar.google.com/citations?user=T-NdZHMAAAAJ&hl=en

Academic Qualifications: M.Sc. Ph.D.

Post-Doctoral experience: UGC-Raman Post-Doctoral Fellowship, Department of Molecular, Cellular and Biomedical Sciences, University of New Hampshire, Durham, USA (2016-2017)

Teaching Experience: 19 Years, Qualified Tamil Nadu State Eligibility Test (SET) for Lectureship in Life Science -2006.

Course papers:

Course paper	Degree Programme
Medical Microbiology	M.Sc., Microbiology
Food and Industrial Microbiology	M.Sc., Microbiology
Bioprocess Engineering Technology	M.Sc., Life Science
Microbial Diseases and Diagnostics	M.Sc., Life Science

Areas of Research: Genome wide approaches of actinobacteria, cyanobacteria- Biosynthetic gene cluster analysis, Microbiome analysis and Probiotics, Probiogenomics, algal bloom, actinorhizal plant, lichen, mushrooms.

Leadership and outreach and communication

1) Deputy Programme Coordinator, M.Sc., Life Sciences (5 Year Integrated Course), School of Life Sciences, Bharathidasan University (03.07.2025)
2) Principal Investigator in the National Repository for Microalgae and Cyanobacteria (NRMC) –Fresh water unit, Sponsored by DBT, New Delhi
3) Member in Publication Verification Committee- Research papers submitted by Research scholars, Faculty members based on CARE- Consortium for Academic and Research Ethics, Bharathidasan Unuiversity.
4) Member in Naan Mudhalvan Skill Development Scheme, Bharathidasan Unuiversity.
5) Chairman-BoS in Microbiology, Bharathidasan Unuiversity
6) State President of Microbiologists Society, India for academic year 2022-2023 for Tamil Nadu (01/06/2022 to 30/05/2024).
7) Member in Screening & Evaluation Committee, Ministry of Micro, Small & Medium Enterprises (MSME), Government of India, Idea Hackathon 3.0 (Women), held at University College of Engineering, BIT Campus, Anna University, Tiruchirappalli on 26.08.2023
8) External member in Research Advisory Committee (RAC), University College of Engineering, Bharathidasan Institute of Technology (BIT) campus, Anna University, Tiruchirappalli
9) Food safety Officers examiner, Tamil Nadu, Food Safety and Drug administration Department, Teynampet, Chennai- 24.05.2022
10) Chairman /Examiner of the Board of Question Paper Setters in B.Sc Microbiology, Annamalai University Affiliated Colleges, Annamalai Nagar - 608 002
11) Subject Expert in Permanent affiliation Inspection commission - B.Sc., Microbiology course, Bharathidasan University, India
12) Coordinator for NAAC 2018,2024 in the Department of Microbiology, Bharathidasan University
13) DRC member, Department of Microbiology, Bharathidasan University, India
14) UGC-BSR Fellowship Selection committee member (Subject Expert) in the Dept. of Botany, Annamalai University, Chidambaram
15) DST Inspire Fellowship-Convenor- upgradation of JRF to SRF committee member Ms.S.Latha and Ms.G. Vinothini, Research Scholars, Dept. of Microbiology, Bharathidasan University
16) UGC-RGNF Fellowship- upgradation of JRF to SRF committee member as Convener for P.Priya Dharsini and K. Nithya, Research Scholars, Dept. of Microbiology, Bharathidasan University
17) University Graduation Day Committee Member, Bharathidasan University, Tiruchirappalli, India
18) Executive member in International Webinar & 3rd National Conference of the Society for Alternatives to Animal Experiments (IWSAAE& NCSAAE-2020), held at National Centre for Alternatives to Animal Experiments, Bharathidasan University, Tiruchirappalli on Dec 28, 2020
19) Faculty Coordinator for the Bharathidasan University Student Induction Programme-2021(BDU-SIP-2021) for M.Sc., Life Sciences held at Bharathidasan University from 29th November 2021 to 1st December 2021.

20) Guest Associate Editor-Frontiers in Cellular and Infection Microbiology (Clinical Microbiology Journal IF 5.3) May, 2022

Mentoring and career advice

Program of Study		Completed	Ongoing
Research	**Ph.D.**	**15**	**05**
	PDF	**01**	
	M.Phil.	**20**	**-**
Project	**PG**	**84**	**-**

Publications

International		National		Others
Journals	**Conferences**	**Journals**	**Conferences**	**Books / Chapters / Monographs / Manuals**
126	**-**	**14**	**05**	**Books-20 Manuals-03 Chapters-104**

Cumulative Impact Factor (as per JCR) :		**178.72**
h-index	**:**	**42**
i10 index	**:**	**107**
Total Citations	**:**	**5424**

Grants or Funding received

S. No.	Title of project	Funding agency	Duration of project	Amount of Funding (Rs.in lakhs)
1	Characterization of Novel *Streptomyces* sp. as a potential bioactive substance producer from marine soil of east coastal region of Tamil Nadu	International Foundation for Science-IFS, Sweden	2007-2010	8000 USD Rs, 6,69,232
2	Entrepreneurship programme of Oyster Mushroom cultivation technology for SC/ST population in and around Tiruchirappalli District	Dept. of Biotechnology (DBT) Govt. of India	2009– 2012	Rs. 9,24,000
3	Evaluation of Larvicidal Effect of Actinobacterial Metabolites for Biological Control of Culex	Indian Council for Medical Research (ICMR) Govt. of India	2012- 2014	Rs. 14,50,000

	Mosquito			
4	Biosynthesis and antimicrobial applications of silver nanoparticles from marine actinobacteria against the multidrug resistant microbial pathogens	University Grants Commission, India	2012- 2015	Rs. 12,10,800
5	Culturable Actinomycetes Associated with Coastal Lichens: A Potential Source of Bioactive Compounds	Dept.of Biotechnology (DBT) Govt. of India	2017-2020	Rs.88,53,900
6	Actinobacterial symbionts from Root nodules of Actinorhizal plant *Casuarina* species	Rashtriya Uchchatar Shiksha Abhiyan (RUSA), New Delhi 110067	2020-2022	Rs 12,36,000
7	Establishment of National Repository for Microalgae and Cyanobacteria – II Phase	Dept. of Biotechnology (DBT) Govt. of India	2021-2024	Rs. 14,86,426
	Establishment of National Repository for Microalgae and Cyanobacteria – II Phase	Dept. of Biotechnology (DBT) Govt. of India	2021-2024	Rs. 11,69,280
8	Postbiotic as Biopreservatives in Fruit Juice Production and Optimization using Probiotic bacteria *Limosilactobacillus fermentum*	Chief Minister Research Grant (CMRG), Govt. of India	2024-2027	Rs. 31,50,000
9	Integrating Municipal Waste Water Treatment and Economic Crop Cultivation Using Indigenous Microalgae and Cyanobacteria – a raceway pond (35 KL) demonstration-Co-PI	Chief Minister Research Grant (CMRG), Govt. of India	2025-2028	Rs.25,59,000
Conference Grants				
	Name of the Conference	**Funding Agency**		
8	National Conference on New Opportunities and Challenges in Microbial Research, Dept. of Microbiology, Bharathidasan University,	Dept. of Biotechnology (DBT) Govt. of India Indian Council for Medical Research (ICMR) Govt. of India UGC Unassigned grant-DST PURSE	September 5-6th, 2013	Rs. 50,000 Rs. 40,000 Rs. 19,000 Rs. 10,000
9	Workshop on Edible mushroom cultivation for self-employment of rural population, Dept. of Microbiology, Bharathidasan	DST-PURSE Programme, Bharathidasan University	February 22-23, 2018	Rs. 32,380

	University,			
10	Innovative Technology of Oyster Mushroom cultivation for self-employment of Rural population	Scheme of Dissemination of Innovative Technology (DIT), Tamil Nadu State Council for Science and Technology, Chennai-600 025	February 19-21, 2019	Rs. 50,000/-
11	**National Seminar on Microbes in Women Health -** under the Association of Trichy Obstetric and Gynecological Society (TRIOGS), Puthur, Trichy – 620017	International Society for Microbial Ecology (ISME), **The Netherlands**	July 11-12, 2019 (2 days)	EURO 1094/- (Rs. 84,563)
12	National Workshop on Molecular Techniques In Taxonomy to Biotechnology of Actinobacteria and Cyanobacteria	Rashtriya Uchchatar Shiksha Abhiyan (RUSA), New Delhi 110067	March 8 - 10th, 2022	Rs. 70,000
13	An entrepreneurship programme on Oyster mushroom farming for the Empowerment of rural populations	DST-PURSE Programme, Bharathidasan University-II Phase	March 24th – 25th, 2022	Rs. 40,000/-
14	International Conference on Microbiome and Synthetic Biology (ICMSB 22), in association with Society of chemical and synthetic biology (SCSB)	DST-SERB INSA- Indian National Science Academy, New Delhi	September 22-23, 2022	Rs. 1,00,000 Rs. 50,000
15.	Training programme on *Chlorella* Genomics, Cultivation, Processing and Value-Added Product	Dissemination of Innovative Technology (DIT), Tamil Nadu State Council for Science and Technology, Chennai.	September1-3, 2025	**Rs. 50,000**
			Total Rs.	**2,32,14581**

Patents

S. No.	Title of Patent(s) obtained	Year	Patent Number
1	Patent granted on Nanobased genomic DNA extraction from microorganisms using biogenic nano silver- (Indian Patent)-P.M.Gopinath and **D. Dhanasekaran**	2023	E2/1390/2016-CHE/201641015447
2	PostBio Fermentum with Cholesterol Reduction, Antibacterial and Antibiofilm Properties- (Indian Patent)-R. Guhanraj and **D. Dhanasekaran**	2024	202441067842

3	Lactocasei Postbiotic feed supplements for milk booster in dairy cows (Filed on: 12.11.2024), Sabarish S and D.Dhanasekaran Filed on: 12.11.2024)	2014	

Distinctive Achievements / Awards

S. No.	Name of Award	Year in which received	Award giving Agency/Organization
1	UGC-Raman Post-Doctoral Fellowship to visit University of New Hampshire, Durham, USA	2016	University Grants Commission, Government of India
2	INSA Visiting Scientist Fellowship (2022-23) awarded to visit CSIR- Central Food Technological Research Institute, Mysore	2022	Indian National Science Academy, New Delhi, Government of India
3	Elected as Fellow of Linnean Society (FLS) of London, UK	2022	Linnean Society (FLS) of London, UK
4	Agathiyar Chemical Biology Award	2022	Society of Chemical and Synthetic Biology (SCSB), India
5	MBSI Senior Teacher Award	2024	Microbiologists of India(MBSI)
6	SAB Distinguished Biotechnologist Award	2025	Society for Applied Biotechnology, India
6	**Tamil Nadu State Eligibility Test (SET)** for Lectureship in Life Science	2006	Bharathiyar University, Coimbatore
7	First class with distinction (with CWAM of 77.40) and secured Second Rank in M.Sc. Microbiology.	2000	Ayya Nadar Janaki Ammal College, Sivakasi, Madurai Kamaraj University. Madurai
	Name of Honor/distinction and recognition		
7	Scrutiny Committee-Expert Member in Ministry of Micro Small Medium Enterprises (MSME) Idea Hackathon 3.0 (Women)	26.08.2023	University College of Engineering, BIT Campus, Anna University, Tiruchirappalli
8	External expert for screening - Seed Money programme for research proposals (for the year 2023-2024	04.12.2023	Jamal Mohamed College, Tiruchirappalli
9	External Member (Basic Medical Scientist) of Institutional Ethics Committee,	18.11.2023	Trichy SRM Medical College Hospital and Research Centre, Tiruchirappalli- 621 105
10	Extraordinary Professor of the North-West University in association with Prof. Babalola OO	12.07. 2021	Food Security and Safety, North-West University, Private Bag X2046, Mmabatho 2735, South Africa

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 12

1. **Organizing Chairman** in the National symposium on Prospects and Retraspects in Microbial technology jointly organized by Dept. of Microbiology, Biotechnology, Cauvery College for Women and Dept. of Microbiology, Bharathidasan University, Tiruchirappalli on Feb 17 and 18th, 2012
2. **Organizing Secretary** in the **National Conference on New Opportunities and Challenges in Microbial Research**, Dept. of Microbiology, Bharathidasan University, September 5-6th, 2013 (Sponsored by DBT, ICMR, DST-PURSE and UGC).
3. **Organizing Secretary** in **Workshop on Edible Mushroom cultivation for Self employment of rural population** held at Dept. of Microbiology, Bharathidasan University, during 22.02.2018 & 23.02.2018 (supported by DST-PURSE programme)
4. **Co-ordinator in Training Programme on Innovative Technology of Oyster Mushroom Cultivation for Self Employment of Rural Population,** held at Dept. of Microbiology, Bharathidasan University (Sponsored by ***Tamil Nadu State council for Science and Technology*** *(TNSCST), Dissemination Innovative Technology (DIT) scheme* and *DST – PURSE Programme*), February 18th - 21st, 2019
5. **Organizing Secretary** in the **National Seminar on "Microbes in Women Health"** in collaboration with Trichy Obstetric and Gynaecological Society (TRIOGS), Tamil Nadu held at Dept. of Microbiology, Bharathidasan University, (Sponsored by **International Society for Microbial Ecology (*ISME*)**, The Netherlands), during 11 and 12th July 2019
6. **Co-Organizing Secretary**in the**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, (*sponcered by DST-PURSE-Phase II*)
7. **Organizing Secretary** in 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)
8. **Organizing secretary** in an entrepreneurship programme on Oyster mushroom farming for the empowerment of rural populations, March 24th-25th, 2022 (Supported by DST-PURSE programme-II Phase Grant)
9. Organizing secretary in **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, Indiaon June18th 2022.
10. Organizing secretary in **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
11. Organizing secretary in **International Conference on Algae - Food, Feed, Fuel and Fine Chemicals** organized by the Department of Microbiology, Bharathidasan University, Tiruchirappalli during 06/09/2023-08/09/2023
12. Organizing secretary in Training programme on *Chlorella* Genomics, Cultivation, Processing and Value-Added Product under the Dissemination of Innovative Technology (DIT), supported by Tamil Nadu State Council for Science and Technology, Chennai organized by the National

Repository for Microalgae & Cyanobacteria – Freshwater, (NRMC-F), Bharathidasan University, Tiruchirappalli during September 1-3, 2025.

Training Courses:

S. No.	Name of training	Name of Institution	Duration
1	Genome wide approaches of symbiotic actinobacteria and microbiome analysis by metagenomic methods.	Research under the mentorship Prof. Louis S. Tisa, Department of Molecular, Cellular and Biomedical Sciences, University of New Hampshire, New Hampshire, Durham, USA	06.09.2016-05.09.2017
2	Training on cyanobacterial sampling, identification, extraction, detection and quantification of cyanotoxins from water, plankton, tissues	Prof. James F. Haney, Department of Biological Science, Centre for Fresh water Biology, University of New Hampshire, Durham, NH 03824	
3	Training on Probiotics Microbes, Curdling, Characterization of Postbiotics	Dr Prakash M HALAMI, Chief Scientist & Professor- AcSIR, CSIR-Central Food Technological Research Institute, MYSORE 570 020, India	30.09. 2022 - 29.11.2022
4	Training on Mosquito Collection, preservation, identification and larval bioassay technique	ICMR-Vector Control Research Centre (VCRC), Pondicherry on	27.08.2012-31.08.2012

Faculty Development Programmes:

S. No.	Title of FDP topic	Name of Institution	Duration
1	Refresher course in Life Science (Interdisciplinary)	UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli	19.06.2018-09.07.2018
2	Refresher course in Life Science (Interdisciplinary)	UGC Academic Staff College, Bharathidasan University, Tiruchirappalli	18.07.2014 to 07.08.2014
3	Refresher course in Life Science (Interdisciplinary)	UGC Academic Staff College, Bharathiyar University, Coimbatore	08.03.2012-28.03.2012
4	Participated Orientation programme	UGC Academic Staff College, Bharathidasan University, Khajamalai campus, Tiruchirappalli	27.01.2011-23.02.2011
5	Faculty Development programme on Bioprocess principles – BP1303	Department of Biotechnology, Banariamman Institute of Technology, Sathyamangalam from Sponsored by	29.05.2006-10.06.2006

		Anna University, Chennai.	

Events Participated

Conferences / Seminars / Workshops: 87

Membership in Professional Bodies

1. Life Member in National Academy of Biological Sciences (NABS)
2. Life member in Mycological Society of India
3. Member in American Society of Microbiology (ASM), USA
4. Member in North American Mycology Association (NAMA), USA
5. Member in International Society for symbiosis
6. Life member in Society for Alternatives to Animal Experiments
7. Life member in Society for Chemical and Synthetic Biology (SCSB)
8. Life member in Microbiologist Society, India (MBSI)
9. Membership of National Repository for Microalgae and Cyanobacteria-Fresh water (NRMC-F) in the World Federation of Culture Collections (WFCC), Germany.
10. Member in Institutional Biosafety Committee (IBSC), Bharathidasan University
11. Life member in Society for Biocontrol Advancement (SBA)

Editorial Board

1. Associate Editor in International Journal of Mosquito Research (ISSN Number: 2348-5906),Innovative Journal Solutions, 169, Pocket C-11, Sector-3, Rohini, New Delhi, India
2. Editorial advisory board member in Intech Opens publication, Croatia, Eastern Europe

Academic Bodies

1. Board of study member in Microbiology, Auxillium College, Vellore, G.R.Dhamodharan College, Coimbatore, RVS College, Coimbatore, ANJA College, Sivakasi, AVVM Sripushpam College, Poondi, Thanjavur, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam - 637 205, Tiruchengode, Thassim Beevi Abdul Kader College for Women, Kilakarai, Srimad Andavan Arts and Science College, Tiruchirappalli, Jamal Mohamed College, Thanthai Hans Rover College, Dhanalakshmi Srinivasan College for Women, Perambulur
2. External expert member in **Board of Studies in Part IV Self Employment course – Microbial Production Technology**, Ayya Nadar Janaki Ammal College, Sivakasi
3. Board of study Member in M.Sc., M.Phil Microbiology, Dept. of Microbiology, Bharathidasan University
4. Board of study Member in B.Sc., M.Sc., Microbiology, Bharathidasan University
5. BOS Member (an alumnus) in M.Sc. Microbiology in Department of Botany and Microbiology, AVVM Sri Pushpam College, Poondi, Thanjavur11.09.2020
6. BOS Member in B.Sc. Microbiology in Department of Microbiology, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam – 637 205, Tiruchengode through the online meet dated on 11.09.2020 at 10 am.

7. BOS Member in B.Sc. and M.Sc., Degree course in Microbiology, RVS College, Coimbatore in Zoom meeting on 25.06.2021
8. University Representative- Board of Studies in Microbiology, Srimad Andavan Arts andScience College, Tiruchirappalli-620 005 with effect from 27.07.2021 for the period of 3 years.
9. Chairman /Examiner of the Board of Question Paper Setters in B.Sc Microbiology, Annamalai University Affiliated Colleges, Annamalai Nagar – 608 002 (March 2022)
10. BOS Member in M.Sc. Dept. of Microbiology Srimad Andavan Arts and Science College, Tiruchirappalli-University Nominee
11. BOS Member in B.Sc., and M.Sc. Microbiology, Thassim Beevi Abdul Kader College for Women, Kilakarai-External Subject Expert (January, 2022)
12. Convenor in Inspection commission, B.Sc Microbiology Continuation of Provisional affiliation to Thiruvalluvar University- King Nandhivatrman College of Arts and Science, Thellar-604 406(April 2023)
13. BOS Member in B.Sc. Microbiology and Clinical Lab Technology, Alagappa University, Affiliated College, Karaikudi-External Subject Expert (March, 2023)
14. BOS Member in M.Sc. Microbiology, Jamal Mohamed College, Tiruchirappalli-External Subject Expert (Feb. 2023)
15. BOS Member in M.Sc. Microbiology, Periyar University Affiliated College, Salem-External Subject Expert (March, 2023)
16. BOS Member in M.Sc. Microbiology, AVS College of Arts and Science, Salem-External Subject Expert (December 2023)
17. BOS Member in M.Sc. Microbiology, JJ College of Arts and Science, Pudukkottai-University Representative,(April 2024)
18. BOS Member in B.Sc. Microbiology, AVVM Sri Pushpam College, Poondi, Thanjavur-University Representative (August 2024)
19. Chairman, BOS Member in M.Sc. Microbiology , Thanthai Hans Rover College, Perambalur-University Representative (December 2024)
20. Chairman, BOS in B.Sc., M.Sc. Microbiology, Bharathidasan University Affiliated Colleges, Tiruchirapplli, (October, 2024)
21. BOS Member in Microbiology, Annamalai University, Chidambaram- External member (February, 2024)
22. Chairman, Question papers setting Board in M.Sc., Microbiology, Alagappa University, Karaikuddi (December 2024)
23. Chairman, Question papers setting Board in M.Sc., Microbiology, Periyar University, Salem (March 2024)
24. Ph.D Entrance Examination Interview panel member, Bharathidasan University (March 2024)
25. Academic Council Member- University Representative in National College, Tiruchirappalli (2025-2028)
26. Academic Council Member- University Representative in Valluvar College of Science and Commerce, Karur (2025-2028)

Recent Publications

1) Priyanka Jayam R., Sumathy S., Chandraleka S., Thajuddin N., Dhanasekaran D. 2025. Molecular Monitoring, Identification of the Microcystin Synthetase (mcy) Gene and Toxic Potential of *Microcystis aeruginosa* in Indian Freshwater Blooms, Toxicon, https://doi.org/10.1016/j.toxicon.2025.108631
2) Thajuddin, F., Rasheed, A.S., Palanivel, P., Thajuddin, S.F., Nooruddin, T. and Dharumadurai, D., 2025. Evolutionary adaptations of cyanobacterial polyhydroxybutyrate (PHB) biosynthesis and metabolic pathways in *Spirulina*, *Arthrospira*, and *Limnospira* spp. Scientific Reports, 15(1), p.24497.
3) Chitthan, S.V., Dhanasekaran, D. and Thajuddin, N., 2025. Algal sensitivity and tolerance as key tools for validating organic pollution status in freshwater, detection of algal bioindicators. Journal of Hydrology, 661, p.133843.
4) Chitthan, S.V., Rasheed, A.S., Muniyandi, M., Dhanasekaran, D. and Thajuddin, N., 2025. Bioactive Peptides from Microalgae and Cyanobacteria and Their Possible Mechanisms of Action. International Journal of Peptide Research and Therapeutics, 31(5), pp.1-28.
5) Thajuddin, F., Rasheed, A.S., Elumalai, A., Palanivel, P., Nooruddin, T. and Dharumadurai, D., 2026. Harnessing microalgae and cyanobacteria for sustainable bioenergy production: Integration of molecular engineering and AI-driven approaches. Renewable Energy, 256, p.123961.
6) Thajuddin, F., Palanivel, P., Chithirai, A., Thajuddin, S.F., Arivalagan, P., Saravanan, C., Nooruddin, T. and Dharumadurai, D., 2025. Green synthesis of titanium oxide nanoparticles using aqueous extracts of *Limnospira fusiformis* and their multifunctional applications in biomedical and biodiesel production. Algal Research, p.104082.
7) Radhamanalan, G., Mickymaray, S., Alothaim, A.S., Alsowayeh, N. and Dharumadurai, D., 2025. Whole-genome analysis of *Streptococcus mutans* GDP01 isolate of dental caries tooth. Microbiology Resource Announcements, pp.e01057-24.
8) Rajendran, P.J., Nooruddin, T. and Dharumadurai, D., 2025. Metabarcoding of Bacterial Communities Impacting the Dynamics of Cyanobacterial Blooms in Freshwater Reservoirs, South India. Water, Air, & Soil Pollution, 236(1), p.66.
9) Somasundaram, M., Ganeshan, M., Samal, S.K., Dharumadurai, D., Madrahimov, S., Deshwal, A., Kaur, H., Sinopoli, A. and Yempally, V., 2025. Synthesis and structural elucidation of cytotoxic mono and dinuclear rhenium carbonyl complexes bearing bis-{1, 3-(imino pyrrolyl)-m-chloro phenyl)} ligand. Journal of Molecular Structure, 1319, p.139506.
10) Thajuddin, F., Ashok, C., Thajuddin, S.F., Nooruddin, T., Dharumadurai, D. and Babalola, O.O., 2024. Whole-genome sequence of *Limnospira fusiformis* NRMCF6962, isolated from lake water. Microbiology Resource Announcements, 13(11), pp.e00855-24.
11) Karthiyayini, B., Karthick Raja, A., Arthi, S., Gowdhami, B., Muthuselvam, M. and Dhanasekaran, D., 2024. Proteomic analysis of psychedelic mushroom isolate and exploring potential antimicrobial peptides against bacteria. Natural Product Research, pp.1-9.
12) Thajuddin, F., Chithirai, A., Thajuddin, S.F., Nooruddin, T., Gangatharan, M. and Dharumadurai, D., 2024. Diversity and growth conditions for Polyhydroxyalkanoate (PHA) production in phytoplankton community from freshwater habitats at Visakhapatnam, Andhra Pradesh, India. Algal Research, 82, p.103652.

13) Vishnu Raja V, Priyanka JR, Poornima M, Ramanathan K, Tanmoy S, Saurabh D, Dhanasekaran D, 2024. Structural geometry, electronic properties and pre-clinical evaluation of antibacterial compounds from lichen-associated Streptomyces mobaraensis DRM1 and *Nocardiopsis synnemataformans* DRM2, Journal of Molecular Structure, 138561
14) Rajesh, K., Anahas, A.M.P., Prasannabalaji, N., Sophiya, M., Ramanathan, K., Sivakumar, N., Dhanraj, G. and Dhanasekaran, D., 2024. Histological validation of in-vivo larvicidal efficacy of marine Streptomyces sp. RD06 secondary metabolites against filariasis causing Culex quinquefasciatus and statistical media optimization for larvicidal derivatives production. Acta Tropica, p.107226
15) Guhanraj, R. and Dhanasekaran, D., 2024. Probiotic functional gene explorations in the genome of *Limosilactobacillus fermentum* GD5MG. Microbial Pathogenesis, 192, p.106686.
16) Radhamanalan G, Dhanasekaran D, 2024. Anticandidal efficacy of oral probiont *Limosilactobacillus fermentum* against dental caries pathogens in children, Tamilnadu, India, Indian Journal of Microbiology, 64:244-253
17) Sabarish, S. and Dhanasekaran, D., 2024. Bacterial Community Profile of Bovine Mastitis Infected Dairy Cow Milk by 16S rRNA Amplicon Sequencing. Indian Journal of Microbiology, pp.1-10.
18) Balakrishnan, K., Krishnaa, D., Balakrishnan, G., Manickam, M., Abdulkader, A.M. and Dharumadurai, D., 2024. Association of Bacterial Communities with Psychedelic Mushroom and Soil as Revealed in 16S rRNA Gene Sequencing. Applied Biochemistry and Biotechnology, 196(5), pp.2566-2590.
19) Vishnu Raja V, Karthikeyan S, Maharaja S, Rajkumar J, Panneerselvam A, Thajuddin N, Dhanasekaran D, 2022. Metagenomic analysis of lichen-associated bacterial community profiling in *Roccella montagnei*, Archives of Microbiology, 204:54
20) Ennis, N.J., Dharumadurai, D., Sevigny, J.L., Wilmot, R., Alnaimat, S.M., Bryce, J.G., Thomas, W.K. and Tisa, L.S., 2022. Draft genomes sequences of 11 Geodermatophilaceae strains isolated from building stones from New England and Indian Stone Ruins found at historic sites in Tamil Nadu, India. Journal of Genomics, 10, p.69.

21) Thirugnanam, T., Dharumadurai, D. and Babalola, O.O., 2023. Draft Genome Sequence of *Streptomyces moderatus* DT446, Isolated from Root Nodules of *Casuarina cunninghamiana*. Microbiology Resource Announcements, pp.e00181-23.
22) Oyedoh, O.P., Yang, W., Dhanasekaran, D., Santoyo, G., Glick, B.R. and Babalola, O.O., 2023. Rare rhizo-Actinomycetes: A new source of agroactive metabolites. Biotechnology Advances, p.108205., **IF 17.2**
23) Balakrishnan, K., Krishnaa, D., Balakrishnan, G., Manickam, M., Abdulkader, A.M. and Dharumadurai, D., 2023. Association of Bacterial Communities with Psychedelic Mushroom and Soil as Revealed in 16S rRNA Gene Sequencing. Applied Biochemistry and Biotechnology, pp.1-25.
24) Oyedoh, O.P., Yang, W., Dhanasekaran, D., Santoyo, G., Glick, B.R. and Babalola, O.O., 2023. Rare rhizo-Actinomycetes: A new source of agroactive metabolites. Biotechnology Advances, p.108205.
25) Gueddou, A., Ennis, N.J., Dharumadurai, D. and Tisa, L.S., 2022. High-Quality Genome Sequences of Six Actinobacterial Strains Isolated from Granite, Granodiorite, and

Tourmaline Rock Surfaces Sampled from Tamil Nadu, India, and New England, United States. Microbiology Resource Announcements, 11(11), pp.e00946-22.

26) M. Narayanasamy, **D. Dhanasekaran** and N. Thajuddin, 2022.*Frankia* consortium extracts high-value metals from e-waste. Environmental Technology & Innovation, 28: 102564, doi: https://doi.org/10.1016/j.eti.2022.102564. IF 5.2 Accepted date : 9 April 2022

27) Nathaniel J E, **Dhanasekaran D**., and Louis S Tisa. 2022. Draft Genome Sequences of 6 Actinobacterial Strains Isolated from Rock Surfaces Obtained from Indian Stone Ruins in Tamil Nadu, India, and Rocks from New England, United States, Microbiology Resource Announcements, 11(3) e00024-22

28) Vishnu Raja V, Karthikeyan S, Maharaja S, Rajkumar J, Panneerselvam A, · Thajuddin N and **D. Dhanasekaran**, 2022. Metagenomic analysis of lichen-associated bacterial community profiling in *Roccella montagnei*, Archives of Microbiology, 204:54, https://doi.org/10.1007/s00203-021-02707-7, **Impact factor: 2.5**

29) Karthick Raja A and **D. Dhanasekaran**. 2021. Genome mining of biosynthetic gene clusters intended for secondary metabolites conservation in actinobacteria Microbial Pathogenesis.161,105252, https://doi.org/10.1016/j.micpath.2021.105252, **Impact factor 3.78**

30) Narayanasamy M, **Dhanasekaran D**, Thajuddin N. 2021. Bioremediation of noxious metals from e-waste printed circuit boards by *Frankia*, Microbiological Research, https://doi.org/10.1016/j.micres.2021.126707, Available online 19 January 2021. (**IF 5.41)**

31) Nathaniel JE., **Dhanasekaran.D**, Bryce JG, and LS. Tisa (2020). Metagenome Across a Geochemical Gradient of Indian Stone Ruins Found at Historic Sites in Tamil Nadu, India. Microbial Ecology (**IF 4.55**) https://doi.org/10.1007/s00248-020-01598-3 (September 13, 2020).

32) Subrata Da., Sangharaj D., Vinothini G., Balaji P., Gowdhami B., Thirumurugan R., Dhanasekaran D., Bhaskar B. 2020. Synthesis, morphological analysis, antibacterial activity of iron oxide nanoparticles and the cytotoxic effect on lung cancer cell line. Heliyon 4, e04953. https://doi.org/10.1016/j. heliyon.2020.e04953.

33) Dhananjay D.,, Afnan Al., Vinothini G., Balaji P., , Gowdhami B., , Thirumurugan R., , Dhanasekaran D., and B.Bhaskar. 2020. C–H functionalization of alkanes, bactericidal and antiproliferative studies of a gold(III)-phenanthroline complex. Journal of Molecular Structure, 1222: 128919 (Impact Factor: 2.46). https://doi.org/10.1016/j.molstruc.2020.128919

34) Dhanasekaran.D., Lathaa.S., Suganya.P., Panneerselvam.A., Senthilkumar.T., Alharbi, N.S. Arunachalam, C. ., Alharbi, S.A. and N. Thajuddin. 2020. Taxonomic identification and bioactive compounds characterization of *Psilocybe cubensis* DPT1 to probe its antibacterial and mosquito larvicidal competency. Microbial Pathogenesis. Microbial Pathogenesis 143: 104138 (**IF 2.58)** https://doi.org/10.1016/j.micpath.2020.104138 (Available online 12 March 2020.)

35) Narayanasamy M., Dhanasekaran D., Thajuddin, N. and M.A. Akbarsha. 2020. Morphological, Molecular characterization and biofilm inhibition effect of endophytic *Frankia* sp. from root nodules of Actinorhizal plant Casuarina sp. Journal title: South African Journal of Botany. https://doi.org/10.1016/j.sajb.2020.02.039, **(IF: 1.5)**

36) Narayanasamy M., Lavania R., Dhanasekaran D., and N. Thajuddin. 2020. Recovery of gold and other precious metal resources from environmental polluted e-waste printed circuit board by bioleaching *Frankia*. International Journal of Environmental Research, 14:165-176. https://doi.org/10.1007/s41742-020-00254-5. **(IF 1.46)**
37) Narayanasamy M., Lavania R., Dhanasekaran D., and N. Thajuddin. 2020. Plant growth promoting active metabolites from *Frankia* spp. of Actinorhizal *Casuarina* spp. Applied Biochemistry and Biotechnology, 191: 74-91. DOI 10.1007/s12010-020-03243-8 (**IF 2.13)**
38) Vinothini,G., Latha, S., Arulmozhi,M., and D.Dhanasekaran.2019. Statistical optimization, physio-chemical and bio-functional attributes of a novel exopolysaccharide from probiotic Streptomyces griseorubens GD5. International Journal of biological macromolecules 134, 575-587. (**IF 4.784).**
39) Jayapriya,M., Dhanasekaran,D., Arulmozhi, M., and E Nandhakumar. 2019. Green synthesis of silver nanoparticles using *Piper longum* catkin extract irradiated by sunlight: antibacterial and catalytic activity. Research on Chemical Intermediates 45 (6), 3617-3631(**IF 2.06)**
40) Srinivasan M., Dhanasekaran D., and G. Archunan. 2019. Vaginal microbiome analysis of buffalo (*Bubalus bubalis*) during estrous cycle using high-throughput amplicon sequence of 16S rRNA gene. Symbiosis**. DOI :** 10.1007/s13199-018-00595-y **(IF 1.71)**
41) Ranjani, A., Gopinath P.M., Ananth S., Narchonai G., Thajuddin N and D. Dhanasekaran (2018). Multidimensional dose-response toxicity exploration of silver nanoparticles from Nocardiopsis flavascens RD30, Applied Nanoscience 8:699–713.doi.org/10.1007/s13204-018-0824-7. ISSN: 2190-5509 (Print) 2190-5517 (Online), **(IF 3.2)**.
42) Nithya K, Muthukumar C, Biswas Br, Alharbi N. S, Shine K., Khaled Jamal M and **D. Dhanasekaran**. 2018. Desert Actinobacteria as a source of bioactive compounds production with a special emphases on Pyridine-2,5-diacetamide a new pyridine alkaloid produced by *Streptomyces* sp.DA3-7. Microbiological Research, 207, 116-133.https://doi.org/10.1016/j.micres.2017.11.012 **(IF 3.2)**
43) Vinothini G, Kavitha R, Latha S, Arulmozhi M and **D. Dhanasekaran**. 2018. Cell aggregating temperament and biopotency of cultivable indigenous actinobacterial community profile in chicken (*Gallusgallus domesticus*) gut system. Arabian Journal for Science and Engineering,https://doi.org/10.1007/s13369-018-3083-8. ISSN: 2193-567X (print version),ISSN: 2191- 4281 (electronic version),(**IF 1.09).**
44) Gayathri L., Karthikeyan B.S. Rajalakshmic M., **Dhanasekaran, D**, Li, A.P., and M. A. Akbarsha.2018. Metabolism-dependent cytotoxicity of citrinin and ochratoxin A alone and in combination as assessed adopting integrated discrete multiple organ co-culture (IdMOC). Toxicology in Vitro. 46 166–177. DOI information: 10.1016/j.tiv.2017.09.022 (https://doi.org/10.1016/j.tiv.2017.09.022) **(IF 2.8)**.
45) Latha, S., Sivaranjani, G. and **D. Dhanasekaran**. 2017. Response surface methodology: Anon-conventional statistical tool to maximize the throughput of Streptomyces species biomass and their bioactive metabolites, Critical Reviews in Microbiology, 43(5): 567–582(ID: 1271308 DOI:10.1080/1040841X.2016.1271308) (**IF 8.13)**
46) Nithya K, Muthukumar C, Shine K, Naiyf S.A, Jamal M. K, **Dhanasekaran D**, 2017. Purification, characterization, and statistical optimization of a thermostable α- amylase

from desert actinobacterium *Streptomyces fragilis* DA7-7. 3 Biotech. 7(5):350. doi:10.1007/s13205-017-0981-5 **(IF 1.36)**.

47) Gopinath, P. M., Ranjani, A., **Dhanasekaran, D**., Thajuddin, N., Archunan, G., Akbarsha, M. A., Gulyás, B., and Padmanabhan, P. (2016). Multi-functional nano silver: A novel disruptive and theranostic agent for pathogenic organisms in real-time. **Nature Scientific Report**. 6, 34058; DOI: 10.1038/srep34058. (**IF: 5.228)**
48) Gayathri.L, Dhivy.R, **Dhanasekaran.D**, Periasamy.V.S, Alshatwi. A. A. and M. A. Akbarsha. 2015. Hepatotoxic effect of ochratoxin A and citrinin, alone and in combination, and protective effect of vitamin E: In vitro study in HepG2 cell. Food and Chemical Toxicology, 83, 151-163 **(IF 2.8)**.
49) Sanjay R, Gayathri L, **Dhanasekaran D**, Mohammad A. Akbarsha, G. Partha Sarathi. 2017. Model studies on the interactions of a Cu(II) - quinone complex with surfactant micelles and DNA explore its induction of apoptosis in human MDA-MB-231 breast adenocarcinoma cells. Journal of Coordination Chemistry. 70:12, 2128-2147, DOI: 10.1080/00958972.2017.1330466, Print ISSN: 0095-8972 Online ISSN: 1029-0389 (**IF 1.75).**
50) Narayanasamy M, **Dhanasekaran D**, Vinothini G and N. Thajuddin. 2018. Extraction and recovery of precious metals from electronic waste printed circuit boards by bioleaching acidophilic fungi. International Journal of Environmental Science and Technology, 15: 119- 132. DOI: 10.1007/s13762-017-1372-5. (**IF 2.344)**.
51) Muthuselvam R, Vinothini G, Palliyarai Thaiyammal S, Latha S, Arunachalam C, Alharbi S,**Dhanasekaran D**, Padmanabhan P, Archunan G. Cell aggregating propensity of probiotic Actinobacterial isolates: isolation and characterization of the aggregation inducing peptide pheromone. Biofouling. 2016; 32(1): 71-80. (**IF 3.00**)
52) Nisha J, Ramanathan K, Nawaz Khan F, **Dhanasekaran D**, and V. Shanthi. 2016. Discovery of a potential lead compound for treating leprosy with dapsone resistance mutation in *M.lepra*efolP1. Molecular Biosystems. 12, 2178-2188. DOI: 10.1039/c6mb00225k **(IF: 3.210)**
53) Latha S, Vinothini G, Calvin DJ, **Dhanasekaran D**. 2016. *In vitro* probiotic profile based selection of indigenous Actinobacterial probiont *Streptomyces* sp. JD9 for enhanced broiler production. J Biosci Bioeng. 121(1):124-131. (**IF 1.98**)
54) 15)Gopinath, P.M., **Dhanasekaran, D**, Ranjani, A, Thajuddin, N, Akbarsha, M.A., M. Velmurugan and A. Pannerselvam. 2015. Optimization of sporicidal activity and environmental *Bacillus* endospores decontamination by biogenic silver nanoparticle. Future Microbiology, DOI :10.2217/FMB.14.150. (**IF 4.2**)
55) Amit D., Sanjay R., Palash M., Arup D., Kalachand M., Gayathri L., **Dhanasekaran D**, Partha Sarathi Sengupta, M.A. Akbarsha and Partha S. G. 2016. Studies on the interaction of2-amino-3-hydroxy-anthraquinone with surfactant micelles reveal its nucleation in humanMDA-MB-231 breast adinocarcinoma cells. **RSC Advanced**. 2016, 6, 28200-28212. **(IF 3.84).**
56) Dey, D.,Subrata Das, S., Ram Yadav, H., Ranjani,A.,Gayathri, L., Roy,S., Sarathi Guin,P.,**Dhanasekaran, D**., Angshuman Roy Choudhury, A.R,Akbarsha,M.A.,and B. Bhaskar. 2016. Design of a mononuclear copper(II)-phenanthroline complex: Catecholoxidation, DNA cleavage and antitumor properties. Polyhedron.106: 106-114.**(IF 2.108)**

57) Dey, D A. Basuroy, A. Ranjani, L.Gayathri, S. Chandraleka, **D. Dhanasekaran**, M.A. Akbarsha,Chung-yu shen H.L. Tsai, M. Maji, N. Kole, and B. Bhaskar. 2015. Synthesis and bio-catalyticactivity of isostructural cobalt(III)-phenanthroline complexes. J. Chem. Sci. 127,(4) 649– 661. **(IF-1.19).**
58) Latha, S. Vinothini,G and **D. Dhanasekaran**.2015. Chromium [Cr(VI)] biosorption property of the newly isolated actinobacterial probiont *Streptomyces werraensis* LD22, 3 Biotech, 5(4) 423-432. **(IF 1. 361)**
59) Dey, D., S.Pal, Partha Mitra, **D. Dhanasekaran**, A. Ranjani, L. Gayathri, M. A. Akbarsha and N. Kole. Bhaskar, B. 2014. A novel trinuclear zinc-Schiff base complex: Bio-catalytic activity and cytotoxicity. European Journal of Inorganic Chemistry. (21), 3350-3358 **(IF=3.12)**
60) Subhasish, S., **Dhanasekaran**, **D.** Shanmugapriya S and S. Latha, 2013. *Nocardiopsis* sp. SD5: A potent feather degrading rare actinobacterium isolated from feather waste in Tamil Nadu, India. Journal of Basic Microbiology, 53, 608–616. **(IF 1.585)**
61) Subhasish, S., Priyadharshini, A. **Dhanasekaran**, **D.** Thajuddin, N. Chandraleka, S. Chandramohan, G and A. Panneerselvam. 2012. Preclinical evaluation and molecular docking of 4-phenyl-1-Napthylphenylacetamide (4P1NPA) from *Streptomyces* sp. DPTB16 as a potent antifungal compound. Computers in Biology and Medicine. 42(5):542-7 **(IF 1.28)**

Number of Books published (Edited books):

S. No.	Title of the book	Author(s)	No. of Pages	Year of Publication	ISBN Number & Publisher's name
1	Chlorella Genomics, Cultivation, and Bioenterpise: Green Economy through Algal Innovations	Dhanasekaran Dharumadurai	-	2026	Springer Protocols 682194
2	Medicinal Mushrooms; Conservation and Bioprospecting	A. Sankaranarayanan and Dhanasekaran Dharumadurai	269	2025	Springer Protocols ISBN 978-1-0716-4995-4
3	Human and Animal Microbiome Engineering	Dharumadurai Dhanasekaran, A. Sankaranarayanan, Priyanka Sarkar	389 pages	2024	ISBN 978-0-443-22348-8 Elsevier Inc.
4	Plant Microbiome Engineering	Dharumadurai Dhanasekaran, A. Sankaranarayanan	560 pages	2024	Springer Protocols Handbooks, New York, NY ISBN:978-1-0716-

					4180-4 -4
5	Postbiotics	**Dhanasekaran, D**	Pages 423	2023	Springer Protocols Handbooks, New York, NY 10004, ISBN 978-1-0716-3421-9
6	Protocols for Cyanobacteria sampling and detection of Cyanotoxin	Thajuddin, N., Sankaranarayanan, A., and **Dhanasekaran, D**	Pages 508	2023	Springer Protocols Handbooks, New York, NY 10004, U.S.A.eBook ISBN: 978-981-99-4514-6
7	Food Microbiology based Entrepreneurship: Making money from microbes	Amaresan,N., **D. Dhanasekaran**, Olubukola Oluranti Babalola,	Pages 410	2023	Springer, ISBN-13: 978-9811950407
8	Industrial Microbiology based Entrepreneurship: Making money from microbes	Amaresan, N., **D. Dhanasekaran**, Diana R. Cundell	Pages 323	2022	Springer ISBN: 978-981-19-6663-7
9	Agricultural Microbiology based Entrepreneurship: Making money from microbes	Amaresan, N., **D. Dhanasekaran**, OlubukolaOluranti Babalola.	Pages 339	2023	Springer, ISBN: 978-981-19-5746-8
10	Microbial Symbionts: Functions and Molecular Interactions on Host under	**Dhanasekaran, D**.	Pages 922	2022	Elsevier Publication, ISBN 9 780323 993340
11	Methods Methods in Actinobacteriology	**Dhanasekaran, D**	Pages 640	2021	Springer Protocols Handbooks, New York, NY 10004, ISBN 978-1-0716-1728-1
12	Advances in Probiotics: Microorganisms in Food and Health	**Dhanasekaran, D** and A. Sankaranarayanan	Pages 566	2021	Academic Press, Elsevier, Cambridge MA 02139, ISBN: 978-0-12-822909-5
13	Microbiome-Host Interactions	**Dhanasekaran, D**., Dhiraj Paul, Amaresan, N., Sankaranarayanan, A., and Yogesh Shouche	Pages 436	2021	CRC Press, Taylor & Francis Group, Boca Raton, FL, New York, USA, ISBN: 9780367479909
14	Fermented Food Products	Sankaranarayanan, A., Amaresan, N. and **Dhanasekaran D**	Pages 411	2020	CRC Press, Taylor & Francis Group, Boca Raton, FL, New York, USA, ISBN

					9780367224226
15	Microbial control of Vector borne Diseases	Tyagi, BK and **Dhanasekaran. D**.	Pages 463	2018	CRC press, Taylor & Francis Group, Boca Raton, FL, New York, USA, ISBN number 978-1-138-05581-0
16	Microbial Biofilms-Importance and Applications	**Dhanasekaran. D** and Thajuddin. N.	Pages 522	2016	InTech Open Access, ISBN 978-953-51-2435-1,
17	Algae-Organisms for Imminent Biotechnology	Thajuddin. N and **D. Dhanasekaran**	Pages 340	2016	In Tech Open Access, ISBN 978-953-51-2432-0,
18	Actinobacteria: Basics and Biotechnological applications	**Dhanasekaran. D** and Yi Jiang	Pages 398	2016	In-Tech Open Access publisher, ISBN 978-953-51-2248-7,
19	Fungicides for Plant and Animal Diseases	**D. Dhanasekaran,** Thajuddin. N and A. Pannnerselvam.	Pages 308	2012	In Tech Open Access publisher, ISBN: 978-953-307-670-6.
20	Antimicrobials: Synthetic and Natural Compounds	**Dhanasekaran. D**., Thajuddin, N. and Panneerselvam, A	Pages 524	2015	CRC Press, Taylor & Francis Group, Boca Raton, FL, USA, 524 pages, ISBN No: 9781498715621
Lab Manuals					
1	Biological Techniques-A Laboratory Manual,	Thajuddin, N, Senthilkumar, T and **D. Dhanasekaran**	Pages 198	2016	Yazhini Publication, Cuddalore, ISSN: 978-93-80622-41-5
2	Laboratory Methods in Biology	Thajuddin, N, **Dhanasekaran, D**, Muralitharan G, and T. Senthilkumar		2018	Jazym Publication, Tiruchirappalli, ISBN: 978-93-87360-13-6
3	Molecular Techniques in Taxonomy to Biotechnology of actinobacteria and Cyanobacteria; Laboratory Manual	Muralitharan G, **Dhanasekaran, D** and N Thajuddin,	236	2022	Jazym Publication, Tiruchirappalli, ISBN: 978-93-91563-56-1
4	Mushroom Cultivation (Tamil Version)	Thajuddin, N and **Dhanasekaran, D**.,	70	2011	-

Extension activity

Entrepreneurship Programme of Oyster Mushroom Cultivation Technology for SC/ST Population in and around Tiruchirappalli District in Department of Microbiology, on May19-22, 2010. About the 50 people were trained in the programme.

Extension of my service to perform antifungal activity of textile material as part of M.Sc., Fashion Technology and cosmetics Technology with Dr.N.Manimegali, Dept. of Women study, Bharathidasan University, April, 2014

Field trip for II. M.Sc Microbiology students to Anna University, Tiruchirappalli on 21.10.2017 to learn the downstream processing in Industrial Microbiology.

Field trip for IV Year M.Sc Life Science students to Anna University, Tiruchirappalli on 16.10.2019 to learn the downstream processing methods in Bioprocess Engineering and Technology

Demonstrator in Govt. School students (Govt. High School, Kalkudi, Pudukottai) visit of Microbial research experiments in Dept. of Microbiology, Bharathidasan University, Tiruchirappalli during 21.11.2017-23.11.2017.

Resource person of Training program (National/International)

NATIONAL LEVEL

1. **Judge** for poster presentation, II Louis Pasteur Memorial Symposium, **National Symposium on Antimicrobial Resistance and Drug Discovery**, Dr. N.G.P. Arts and Science College, Coimbatore – 641 048, Tamil Nadu, during September 9 – 10th, 2009.
2. **Resource person**, Two days workshop on **Advanced Molecular and Immunological techniques in Biology** held at Department of Zoology, Govt. Arts College for Women, Pudukkottai, 8th and 9th October, 2009.
3. **Lab Practical's** session on **Microbial culture** on DST Sponsored INSPIRE 2010 programme held at Dept. of Microbiology, Bharathidasan University, Tiruchirappalli-24, on 7th May, 2011
4. **Convener** in DBT sponsored Short term training course on **"Hands on training for the diagnosis of infectious diseases by advanced molecular biological methods using leptospirosis as a model system" (NOVUS ARTIZ - 2010)**, November 29th – December 13th, 2010.
5. **Lab Practical's** session on **Microbial culture** on DST Sponsored INSPIRE 2011 programme held at Dept. of Microbiology, Bharathidasan University, Tiruchirappalli-24, on 17th May, 2011.

6. **Resource person** for **Life Science Refresher course** held at UGC Academic Staff College, Bharathidasan University, Khajamalai campus, Tiruchirappalli-23 on 22nd June, 2011and delivered lecture on Biofouling and antifouling technology.
7. **Convener** in **National Seminar on Cutting Edge Microbial Research**, held at Dept. of Microbiology, Bharathidasan University, Tiruchirappalli-24 on 25-26th, February, 2013
8. **Acted as Co-Chairperson** in technical secession **National symposium on Fundamental and Applied Phycology**, organized by Dept. of Botany, Punjabi University, Patiala on March, 25& 26th, 2013
9. **Acted as Co-Chairperson**, Brain Storming conference on dengue scenario in India: **Disease burden, surveillance and control**, held at Centre for Research in Medical Entomology (ICMR), Madurai – 625002, July 25-26th, 2013.
10. **Organizing Committee Members** in **National Seminar on Microbes and Human Welfare** organized by Dept. of Microbiology and National of Academy of Biological Sciences [NABS], 20-21, July, 2013
11. **Poster Evaluator** in the **National Seminar on Microbes and Human Welfare** organized by Dept. of Microbiology and National of Academy of Biological Sciences [NABS], 20-21st, July, 2013.
12. **Felicitation** in the UGC sponsored **National seminar on Microbiology and Microbial Technology**, organized by Department of Botany, St.Teresa's College, Ernakulam, Kerala, October 7-8th, 2013.
13. **Chairperson** in **National Conference on Conservation and Inventerization of Below Ground Biodiversity**, organized by Department of Zoology, Kongunadu Arts and Science College, Coimbatore, December 21st , 2013.
14. **Lab Practical's** session on **Microbial culture** on DST Sponsored INSPIRE 2014 programme held at Dept. of Botany and Microbiology, AVVM Sri Pushpam College, Poondi, Thanjavur on 2th March, 2014
15. **Acted as Co-Chairperson** in technical secession **National Conference on Algalogy in Indian context**, organized by Dept. of Microbiology, Bharathidasan University, in collaboration with Krishnamurthy Institute of algalogy, Chennai on September, 19th - 21th, 2014
16. **Acted as Chairperson** in technical secession **National Conference on "A Prospective Approach in Herbal Medicine and Microbiology-2014"**, organized by Sivaraj Siddha Medical College, Salem on 22 and 23rd November, 2014.
17. **Chairperson** in technical secession in the **National Seminar on New opportunities and challenges in Chemical Research**, Department of chemistry at A.V.V.M. sri pushpam College, Poondi, Thanjavur Dt on December 29-30th, 2014.
18. **Chairperson** in technical secession **in National conference on New perspectives in Bioscience** joint organized by Dept. of Biotechnology, Mother Teresa Womens University, Kodaikanal & Dept. of Biochemistry, Biotechnology and Nutrition, Sri adi chunchanagiri Women's College, Kambam on October 5,6th 2015.

19. **Valedictory address** in **One day Seminar on Motivation Campaign and Promotion of Young Scientist**, held at Dept. of Microbiology, Bharathidasan University Constituent College for Women, Orathanadu on 10th February, 2016.
20. **Resource person** in the demonstrated the **Practical's on Gas Chromatography for Life Science Refresher course** held at UGC-Human Resource Development centre, Bharathidasan University, Khajamalai campus, Tiruchirappalli 23.03.2016.
21. **Valedictory address** in Microbiology Association held at PG and Research Department of Microbiology, St.Joseph College (Autonomous), Cuddalore on 29th, March, 2016.
22. **Judge for Poster presentation**, Northeast Section Meeting of the **American Society of Plant Biologists (NEASPB)**, Yale University, New Haven, Connecticut, USA, April 22-23rd, 2017.
23. **Valedictory address** in **Seminar on "Microbe, Microbial Processes and products"** held at Department of Microbiology, STET Women's College, Mannargudi on September 12th, 2017
24. **Chair**, **International Conference on Molecular advances in Biomedical Research**, Department of Zoology, Nehru Memorial College, Puthanampatti during 9-10th, February, 2018.
25. **Inaugural address** in the seminar on **Efficiency of Microbes in Combating Global warming** at NKR Government College for Women (Autonomus), Namakkal on 05.09.2018 and delivered plenary lecture on Metagenomic Analysis of Human and Plant Microbiome.
26. **Co-chair** in UGC-SAP and MoWR sponsored **National Seminar on Biotechnological Solutions for Environmental Challenges** organized by The Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli on 18.12.2018.
27. **Chair** in **National Conference on Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health**, C.G. Bhakta Institute of Biotechnology Uka Tarsadia University Bardoli, Mahuva Road, Tarsadi Dist: Surat - 394 350 Gujarat during March 7-9th, 2019.
28. **Valedictory address** in **National level conference on Harnessing the power of Microbiome in Sustainable Food and Agriculture**, Dept. of Microbiology, St Joseph College, Cuddalore on 19.09.2023.
29. **Inaugural address** in 15th Louis Pasteur **National Symposium on Microbial Prospecting and entrepreneurship**, Department of Microbiology, Dr.NGP College of Arts and Science College, Coimbatore- 641 048 on 22.09.2023.
30. **Keynote address** in I**nternational conference on Inspiring Microbiome for the Future Generation**, Sengamala Thayaar Educational Trust Women's College, Mannargudi on 26.02.2024.
31. **Inaugural address** in the International Conference on Microbial Diversity, Conservation and Bioprospecting held at Dept. of Microbiology, Thanthi Hans Rovers College Perumbalur on 12.12.2025

INVITED LECTURE

1. **Lecture** on **Perspectives of antagonistic Streptomyces, International seminar on Recent trends in Microbiology**-Biogalaxy 2006 held at Dept. of Microbiology, Dhanalakshmi Srinivasan College of Arts and Science for Women, 29th December 2006.
2. **Lecture** on **Oyster Mushroom cultivation technology for Rural Development**, UGC sponsored **National Workshop on Recent trends in Rural Development**, held at Department of Adult, continuing Education & Extension, School of Education, Khamalai campus, Bharathidasan University, Tiruchirappalli-23, on 30,31stMarch, 2009.
3. **Lecture** on **Biofouling and antifouling systems**, BAFA Association, Department of Microbiology, Dhanalakshmi Srinivasan College of Arts and Sciences, Perambulur on 21st August, 2009
4. **Lecture on Marine Bioresources**- An overview, Training programme for college teachers on conservation of Bioresource organized by Department of Rapinat Herbarium and centre for Molecular systematic, St. Joseph College, Tiruchirappalli on February 22nd 2010.
5. **Lecture** on **Biofouling and antifouling Technology**, Department of Biotechnology, Periyar Maniamyami University, Thanjavur, 17th March, 2010.
6. **Lecture** on **Oyster Mushroom cultivation technology, Entrepreneurship programme Oyster Mushroom cultivation technology for SC/ST population**, Department of Microbiology, during May19-22, 2010.
7. **Lecture** on **Bioactive Natural Compounds from Microorganisms**, Dept. Of Biotechnology, JJ College of arts and Science, Pudukkottai on September 2010.
8. **Developing a new resource for Drug Discovery from Marine Microorganisms, National conference on Marine Biodiversity for new Biotechnological applications**, held at Dept. of Life Sciences, Hindustan College of Arts and Sciences, Chennai on 9th December, 2011.
9. **Special Lecture** on **Beneficial and Harmful Microorganisms**, **TNSCST sponsored Inservice Training programme for secondary Grade Science Teachers** held at Dept. of Microbiology, Bharathidasan University College for Women, orathanadu-614 625 on 24th Nov. 2012.
10. **Lecture** on **Vermicomposting technology, National seminar on Development of Women Indentureship**, held at Dept. of Microbiology, Bharathidasan University College for Women, orathanadu-614 625 on 14th Feb, 2012.
11. **Lecture** on **Actinobacterial Biotechnology, Planta Association**, P.G. Dept of Botany, Ayya Nadar Janaki Ammal College, Sivakasi on 27th March, 2013.
12. **Plenary lecture** on **Actinobacteria: Key resource in Microbial Technology** in UGC sponsored **National seminar on Microbiology and Microbial technology**, organized by Department of Botany, St. Teresa's College, Ernakulam, Kerala, October 7-8th, 2013.

13. **Plenary lecture** on **Classical, Molecular taxonomic approaches of Actinobacteria**, organized by PG. Department of Zoology, Govt.Arts College for women, Pudukottai-01, December 11, 2013.
14. **Plenary lecture** on **Classical and Molecular taxonomy approaches to explore the soil actinobacteria Diversity for biotechnological applications** in **National Conference on Conservation and Inventerization of below Ground Biodiversity**, organized by Department of Zoology, Kongunadu Arts and Science College, Coimbatore, December 21, 2013.
15. **Lecture** on **Molecular Taxonomy**, **Natural Product Search and Discovery in Actinobacteria,** Department of Microbiology, Ayya Nadar Janaki Ammal College, Sivakasi on 8thJanuary, 2014.
16. **Special lecture** on **Keratinolytic and Probiotic Actinobacteria: A Potent Microbe in Poultry development**, Dept of Biotechnology, JJ College of Arts and Science, Pudukkottai on September 25th 2014
17. **Plenary lecture** on **Synthesis, characterization and biomedical applications of Bionanopartilces from plant and Microbes** in **National Conference on "A Prospective Approach in Herbal Medicine and Microbiology-2014"**, organized by Sivaraj Siddha Medical College,Salem on 22 and 23 November, 2014.
18. **Lecture** on **Keratinolytic and Probiotic Actinobacteria in Poultry development**, Faculty development programme on **Comprehensive approach of biotechnological applications** organized by the Department of Biotechnology, Bharathidasan Institute of technology, Anna University, Tiruchirappalli-12, 18th April, 2015.
19. **Lecture** on **Prerequisite for research and documentation of research data, Workshop on Research Methodology**, held at SRM University and Medical College, Tiruchirappalli, Tiruchirappalli, 29th September, 2015
20. **Invited Lecture** on **Development of actinobacterial probiotics in Food Biotechnology**, **National conference on New Perspectives in Bioscience** joint organized by Dept. of Biotechnology, Mother Teresa Women's University, Kodaikannal & Dept. of Biochemistry, Biotechnology and Nutrition, Sri Adi Chunchanagiri Women's College, Kambam on October 5,6th 2015.
21. **Delivered lecture** on **Discovery and development of actinobacterial Probiotics** on 16th December, 2015, International seminar on Recent trends in Biology, held at Dept. of Microbiology, M.R. Govt. Arts College, Mannargudi 614 001.
22. **Lecture** on **Discovery and development of actinobacterial Probiotics** in the School of Biosciences and technology, VIT University, Vellore on 29th January, 2016.
23. **Invited Lecture** on **Discovery and development of actinobacterial Probiotics** in one day **Seminar on Motivation Campaign and Promotion of Young Scientist**, held at Dept. of Microbiology, Bharathidasan University Constituent College for Women, Orathanadu on 10th February, 2016.

24. **Invited Lecture** on **Molecular level identification and assessment of marine fungal bioresources**, MHRD sponsored training programme, CAS Marine Biology, Annamalai University, Parangipattai on 24.02.2016.
25. **Lecture** on **Discovery and development of actinobacterial Probiotics**, Microbiology Association, PG and Research Department of Microbiology, St.Joseph College (Autonomous), Cuddalore on 29th, March, 2016.
26. **Lecture** on **Development of Actinobacterial Probiotics in Food Biotechnology**, Biotechnology Association, Department of Biotechnology, St.Joseph College (Autonomous), Tiruchirappalli on 31st, August, 2016.
27. **Lecture** on **Metagenomic analysis of Actinorhizal symbiotic Microbiome**, **National Conference on Recent Advances in Modern biology and Rural Development** (RAMBARD - 2017), P.G & Research Department of Botany of Microbiology, A.V.V.M Sri Pushpam College, (Autonomous) Poondi- 613 503, Thanjavur October 5th& 6th 2017.
28. **Lecture** on **Microbiome Research** at Department of Microbiology, and Cluster of Life Scicence Departments, Ayya Nadar Janaki Ammal College, Sivakasi on 26.03.2018.
29. **Lecture** on **Metagenomic analysis of Actinorhizal symbiotic Microbiome**, National Level seminar on New Advancement in Chemical and Biochemical Science Department of Biochemistry and Chemistry, Idhaya College for Women, Sarugani- 630411 on 26.07.2018.
30. **Special lecture** on **Microbiome in Health and Diseases: Metagenomic approach** held at Department of Biotechnology, J.J Arts and Science College, Pudukkottai on 02.08.2018.
31. **Special lecture** on **Microbiome analysis: A metagenomic approach using QIIME pipeline** held at Microbiology Association, Department of Microbiology, Kandasamy Kandar College, Paramathi Velur- 638181 dated on 13.12.2018.
32. **Invited lecture** on **Antimicrobial potentials and Ecotoxicity of biogenic silver nanoparticles derived from actinobacteria**, National seminar on Recent trends in Nanotechnology ad its applications, held at Imyam Arts and Science College, Kannanur, Thuraiyur- 621 206 dated on 23.01.2019.
33. **Invited lecture** on **Microbiome analysis: A Metagenomic approach using QIIME pipeline**, UGC-SAP sponsored Seminar Cum Workshop on Microbes iin Future, CAS Marine Biology, Annamali University, Parangipettai on 27.02.2019.
34. **Invited lecture** on **Microbiome analysis by 16SrRNA amplicon sequencing** in National conference on Recent advances in biological science organized by Department of Microbiology, Kailash Womens College, Nangavalli, Salem-636 502 on 04.09.2019.
35. **Invited lecture** on (1) **Probiotics in the Modulation of Gut Microbiome for Poultry Production** (2) **Co-occurrence of Mycotoxins in food grains: Health impacts and Hepatotoxicity** held at Department of Biomedical Sciences, School of Bioscience and technology, VIT university, Vellore on 19.02.2020

36. **Invited lecture** on **Microbiome in Health and Diseases: Metagenomic approach**, Department of Microbiology, Vivekanandha College for Arts and Science Women, Tiruchengode on 20.02.2020
37. **Training** on **Mushroom cultivation to Farmers** at Ayyanpudur, Gundur, Tiruchirappali in accociation with Empower Trust dated on 29.01.2020.
38. **Invited lecture** on **Impact of probiotics on Gut Microbiome**, Seminar held at Department of Zoology, Govt Arts College, and Kumbakkonam on 11 .07.2020.
39. **Invited lecture** on **Probiotics on Gut Microbiome modulations in Poultry**, "Virtual conference on Food Microbiology" on 05.10.2020 to 06.10.2020 held at Department of Food Biotechnology, Indian Institute of Food Processing Technology,Thanjavur-613005,Tamil Nadu on 22.10.2020
40. **Invited lecture** on (1) **Microbiome Analysis by 16Sr RNA Amplicon Sequencing Approach using QIIME Pipeline** (2). **Actinobacterial Probiotic Food and feed supplements: Impact on Gut Microbiome Health**, UGC-Sponsored Refresher Course in Bio-Sciences (Interdisciplinary) on 15.12.2020 AN (02.00 p.m.to 05.00 p.m.) through https://meet.google.com/ sma-wesd-sce at UGC–Human Resource Development Centre Bharathidasan University.
41. **Invited lecture** on **Probiotic Food and feed supplements: Impact on GUT Microbiome Health**, DBT sponsored "National seminar on emerging trends in Microbiological Research-2021, held at Department of Microbiology Ayya Nadar Janaki Ammal College (Autonomous), Sivakasion 18 &19th March, 2021.
42. **Judge** in Poster presentation in **International Conference on Current Trends in Computational and Experimental Biology** held at Department of Biotechnology and Bioinformatics, Bishop Heber College, Tiruchirappalli- 620 017 on 19.03.2021
43. **Key note speaker** on Guest Lecture Programme on **"Microbiome analysis of Actinorhizal plant by 16S rRNA ampliconsequencing using QIIME pipeline"** Organized by PG and Research Department of Microbiology of Srimad Andavan Arts andScience College, Tiruchirappalli held on 28 -07-2021.
44. **Invited lecture** on **"Microbiome analysis of Actinorhizal plant by 16S rRNA amplicon sequencing using QIIME pipeline"** in National conference on Emerging trends in Microbiological analysis, Sponsored by DBT-STAR College scheme, Organized by Department of Microbiology of RVS College Arts and Science, Coimbatore held on 21.09.2021.
45. **Invited lecture** on **Microbiome in the Webinar** organized by Department of Microbiology, Apollo Arts and Science College, Guduvanchery, Chennai on 20.12.2021
46. **Lecture** on **Biosynthetic gene cluster analysis in Micromonospora sp. using ANTISMASH: secondary metabolite genome mining pipeline** RUSA Sponsored National Workshop on Molecular Methods in Taxonomy to Biotechnology of Actinobacteria and Cyanobacteria (MoMeTBAC-22) during March 10th, 2022, at the Department of Microbiology, Bharathidasan University, Tiruchirappalli 620024

47. **Invited lecture** on **Mushroom cultivation and Post harvest technology** in the RUSA sponsored National Workshop on Edible Mushroom Cultivation organized by Department of Biotechnology, Bharathidasan University, Tiruchirappalli March 16-17, 2022
48. **Lecture** on **Oyster Mushroom Farming: Farm Design and Post Harvest technology** in the DST-PURSE sponsored An entrepreneurship programme on Oyster Mushroom Farming for the Empowerment of Rural Population held during March 24-25, 2022 at the Department of Microbiology, Bharathidasan University, Tiruchirappalli 620024, Tamil Nadu
49. **Invited lecture** on **Microbiome analysis by 16S rRNA amplicon sequencing** held Department of Microbiology, Srimathi Indiragandi College for women, Tiruchirappalli on 12.04.2022
50. **Invited lecture** on **Oyster Mushroom cultivation and Post harvest technology** in An entrepreneurship programme on Oyster Mushroom held Department of Zoology, Bon Secours College for women, Mannargudi on 13.04.2022
51. **Invited lecture** on **Actinobacterial Genome mining for Biosynthetic gene cluster analysis** held at Microbiology Association meeting, PG and research dept. of Microbiology, MR Government college, Mannargudi 614 001 on 04.05.2022
52. **Invited lecture** on **Probiotics and Postbiotics Food and feed supplements** in International Conference on Contemporary research for the Sustainable developments of Biological Science, Vivekanandha Arts and Science College for Women, Tiruchengode, Namakkal on 02.02.2023
53. **Invited lecture** on **Secondary metabolites detection from Actinobacteria Genome Mining** International conference on Emerging and reemerging infectious Diseases, PG & Research Department of Microbiology, Virudhunagar Hindu Nadars Senthkumara Nadar College, Viruthunagar on 08.02.2023
54. **Invited lecture** on **Probiotic and Gut Microbiome analysis** in the State level Seminar on Recent Trends in Microbial Biotechnology, Department of Biotechnology, V.V.Vanniaperumal College for women, Virudhunagar on 09.02.2023
55. **Invited lecture** on **Soil microbial interactions** in the ICAR sponsored short course entitled "Recent developments in the organic production of oilseeds for ushering productivity, soil health and export, ICAR-Indian Institute of Oilseeds Research, Rajendranagar, Hyderabad-500030, India on 01.03.2024.
56. **Plenary lecture** on **Documentation of Research data and Publication** in the International conference on Scientific Writing for advancement in Carrier, Department of Botany, Bishop Heber College, Tiruchirappalli on 06.07.2023
57. **Invited lecture** on **Probiotic and postbiotic Food formulations** in the Refresher Course in Environmental Studies (Multidisciplinary), Human Resource Development Centre, Bharathiar University, Coimbatore on 12.12.2023.

58. **Invited lecture** on **Biosynthetic gene clusters analysis in actinobacterial genome** in Refresher Course in Botany, School of Human Resource Development Centre, Biological Sciences, Madurai Kamaraj University, Madurai on 15.12.2023.
59. **Lecture** on **Actinozhizal nodule Microbiome: Biodegradation Potential in Feather Waste Management**, HRDC-Refresher course -Environmental studies, Sri Venkateswara University, Tirupati-517502, Andhra Pradesh, India on 08.02.2024
60. **Lecture** on **Detection of Cyanobacteria and Cyanotoxins in Freshwater Reservoir**, HRDC-Refresher course - Environmental studies, Sri Venkateswara University, Tirupati-517502, Andhra Pradesh, India on 09.02.2024
61. **Lecture** on **Genomic mining of biosynthetic gene clusters in Actinobacteria** in Refresher Course in Life Sciences is organized by the Malaviya Mission Teacher Training Centre UGC-Malaviya Mission Teacher Training Centre, Madurai Kamaraj University, Madurai–625021 on 08.03.2024.
62. **Special Lecture** on **Root Nodule Microbiome in Actinozhizal Plants** in Botany Association meeting, Department of Botany, Jamal Mohamed College, Tiruchirappalli 08.03.2024.
63. **Invited lecture** on **Microbiome analysis of Symbionts in Actinorhizal plants** in Science Academies Refresher Course on "Bioprospection of Bioresources: Present Scenario", Department of Environmental Sciences, Bharathiar University, Coimbature on 09.04.2024.
64. **Invited lecture** on Probiogenomics and Probiotic Supplements in the modulation of Gut Microbiome, Refresher course, Bharathiar University, Coimbatore - 46 on 20.09.2024
65. **Invited lecture** on *Spirulina* Cultivation in the Training Programme on Spirulina Cultivation held at Department of Botany, Jamal Mohamed College, Tiruchirappalli on 16.12.2024
66. **Invited lecture** on Diversity, Detection and Control of Cyanotoxin in the Freshwater Reservoir, International Conference on Recent Trends in Microbial Biotechnology for Applications in Agriculture and Medicine, held at VVV College for Women, Viruthunagar on 17 December 2024
67. **Invited lecture** on Genomic analysis of Biosynthetic gene clusters in Cyanobacteria in the National Conference on Innovations in Microbial Diagnostics: Bridging Biology and Technology, Sri Sankara College, Kancheipurum , during February 6-7, 2025
68. Actinorhizal Root nodule Metagenome and Actinobacterial Draft Genome Analysis using next-generation sequence data-Online Guest Lecture in the Faculty Development Programme - Metagenome Workshop organized by Department of Microbiology, PSG College of Arts & Science, Coimbatore on 07-03-2025
69. Invited lecture on Conservation and Bioprospecting psychedelic Mushroom, National Conference on Fungal Frontier: Fungal Farming and Healthcare (NC FFFFH-2025) " at Science Campus, Alagappa University, Karaikudi on 18th March 2025

70. **Invited lecture** on Genomic analysis of Cyanobacteria for Biopolymer Production in the International Conference on Innovative Biotechnological Approaches for Sustainable Developments and Societal Impacts, held at St Michael College of Engineering and Technology, Kalayarkovil on May 22, 2025
71. Invited lecture on Genome wide Analysis of Biosynthetic gene clusters and metabolic profiling to detect Secondary metabolite diversity in Cyanobacteria in the National Level Conference on Frontiers in Biotechnology: Exploring the biotech forefront for Bench to bedside in healthcare organized by entre for Drug Discovery and Development, Sathyabama Institute of Science and Technology, Chennai-600 119 on 26.09.2025
72. Invited lecture on Microbiome Engineering using Probiotic and Postbiotic Food Supplements, Refresher course in Life Sciences held at UGC-Malaviya Mission Teacher Training Centre Bharathidasan University on 22.08.2025
73. Invited lecture on Microbiome Engineering using Probiotic and Postbiotic Food Supplements Refresher course in Life Sciences held at UGC-Malaviya Mission Teacher Training Centre Pondicherry University on 19.09.2025
74. Invited lecture on Genomic insights of Oral Microbiome analysis and Antimicrobial Resistance profiling of *Streptococcus mutans* in the DBT-CTEP popular lecture series on Advances and Challenges in Emerging Infectious Diseases) to be held at Department of Microbiology, Maruthupandiyar College, Thanjavur on 24.09.2025.
75. Invited lecture on Microbiome Engineering using Probiotic and Postbiotic Food Supplements Refresher course in Environmental Sciences held at UGC-Malaviya Mission Teacher Training Centre, Sri Venkateswaraa university, Tirupathi on 29.10.2025.

Research Guidance (Ph.D.):

S. No.	Title of Thesis	Students Name	Name of University	Year of submission / degree awarded
1	Molecular Diagnosis, Characterization and Antimicrobial studies of *Mycobacterium tuberculosis* and associated Microbial pathogens in Female Infertility cases	C. Anchana Devi	Bharathidasan University	October, 2008-October 2011
2	Exploration of keratinolytic Actinobacteria for the bioconversion of poultry feather waste into poultry feed supplement	Subhasish Saha DBT Field worker	Bharathidasan University	October, 2008-October 2011
3	Diversity, Ecobiology and Taxonomic Characterization Freshwater Microalgae in Theni District.	Suresh.A University Research Fellow, BDU	Bharathidasan University	January, 2009-December 2012
4	Diversity, characterization and	P.Priyadharsini	Bharathidasan	July 2009-

	Bioheribicidal potential of terrestrial Actinobacteria against selected Weeds	SRF,UGC-RGNF	University	March 2014
5	Diversity, characterization of mosquitoes and marine Actinobacteria for Mosquitocidal bioactive compound against *Culex quinquefasciatus* and *Aedesaegypti* (Diptera: Culicidae)	K.Rajesh JFR-ICMR	Bharathidasan University	January, 2011-Dec.2014
6	Hepatotoxic potential of ochratoxin A and citrinin, alone and in combination in an in vitro system	L. Gayathri Project Fellow Magatma Gandhi Doerenkamp centre, BDU	Bharathidasan University	January, 2013-June 2016
7	Investigation on Actinobacteria Mediated Nano Silver for Sporicidal, Mycotoxin Detoxification and Soil Metagenomic DNA Extraction Applications	P.M. Gopinath SRF, DST-PURSE	Bharathidasan University	January, 2012-October 2016
8	In vitro and in vivo characterization of cultivable animal faecal actinobacteria for the development of probiotic dietary supplement in broiler production	S. Latha SRF, DST-INSPIRE	Bharathidasan University	July, 2011-April, 2017
9	Desert Actinobacteria: Isolation, characterization and pharmacological potentials of bioactive compound	K.Nithiya SRF, UGC-RGNF	Bharathidasan University	January, 2011-September 2017
10	An In-vitro and In-vivo Antibacterial Potency and Synergistic Effect of Actinobacteria Mediated Silver Nanoparticles against Multidrug Resistant Pathogens	A.Ranjani Project Fellow, UGC	Bharathidasan University	July, 2011-October 2017
11	Exploration of Multifaceted Probiotic Actinobacteria for augmented Broiler Chicken Production	G.Vinothini DST-INSPIRE	Bharathidasan University	January, 2014-November 2017
12	Multifunctional Effects of *Frankia* from Root Nodules of Actinorhizal Plant	M.Narayana samy University Research Fellow (URF), BDU	Bharathidasan University	October 2014 September 2020
13	Diversity of lichen and their associated actinobacteria for the exploration of antimicrobial compounds	V. Vishnu Raja University Research Fellow (URF), BDU	Bharathidasan University	January 2019 May 2024
14	Morphological, biochemical and Whole genome characterization of healthy oral microbiome to reveal the biotherapeutics potential of *Limosilactobacillus*	GUHANRAJ. R	Bharathidasan University	September 2021 Feb 2025

	fermentum			
15	Microbiome and proteome profiling of Psychedelic Mushrooms: An in vitro and in silico analysis of Antimicrobial and Anticancer properties	B. Karthiyayini	Bharathidasan University	10.10.2019-16.05.2025

****