



Dr. P. Malliga

Professor

Contact

Address : Department of Marine
Biotechnology
Bharathidasan University
Tiruchirappalli – 620 024
Tamil

Nadu, INDIA Employee Number :
BDU1620487

Date of Birth : 31-05-1962

Contact Phone (Office) : +91-431-2415891

Contact Phone (Mobile) : +91 9500827318

Contact e-mail(s) : malliga.p@bdu.ac.in,
malliasai18@gmail.com

Academic Qualifications: M.A./M.Sc./M.Phil./Ph.D./

<i>DEGREE</i>	<i>UNIVERSITY</i>	<i>FIELD</i>	<i>YEAR</i>	<i>CLASS</i>
M. Sc.,	Bharathidasan University	Botany	1986	I
M. Phil.,	Bharathidasan University	Botany	1988	I
Ph. D.,	Bharathidasan University	Botany	1993	-

Teaching Experience : 27 Years (August 1994 onwards)

Research Experience: 34 Years (March 1987 to till date)

Areas of Research

- Lignin Waste Degradation, Biofertilizers of Cyanobacteria and Organic Manure.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	15	03
	M.Phil.	-	-
Project	PG	50	07
	UG/Others	-	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
35	22	10	37	07

Cumulative Impact Factor (as per JCR) : 145.127

h-index : 06

i10 index : 05

Total Citations : 381

Funded Research Projects

Completed Projects

S.	Agency	Period	Project Title	Budget
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No		From	To		(Rs. In lakhs)
1.	TNSCST	1999	2000	Identification of the compounds responsible for the induction of sporulation and spore germination in <i>A. azollae</i> ML2 during the degradation of coir waste & field study of <i>A. azollae</i> and <i>Phormidium valderianum</i> BDU 20041 as coir waste based biofertilizer.	5000.00
2.	UGC	2000	2001	Physiology and Biochemistry of akinetes of <i>Anabaena</i> induced with coir waste.	15,000.00
3	DBT	2003	2007	Bioconversion of Lignocellulosic feed stock into ethanol as biofuel	14,75,000.00
4	COIR BOARD	2004	2005	Development and Application of coir pith based cyanobacterial Biofertilizer for field	4,97,000.00
5	UGC through CWS	2006	2007	Training of Women Farmers on coir pith based bio-fertilizer and field demonstration	10,000.00
6	DRDA	2007	-	Training on Preparation and Application of Coir pith based Cyanobacterial Biofertilizer for Self Help Group.	13,095.00
7	DRDA	2007	-	Training on Preparation and Application of Coir pith based Cyanobacterial Biofertilizer for Self Help Group.	12,520.00
8	DRDA	2007	-	Training on Preparation and Application of Coir pith based Cyanobacterial Biofertilizer for Self Help Group.	26,700.00
9	Ministry of Agriculture	2007	2008	National Project on Model Organic Farm	4,00,000.00
10	COIR BOARD	2007	2008	Isolation and Identification of Value added compounds released during degradation of Coir pith by Cyanobacteria for dry land crops as foliar spray	7,30,400.00
11	DBT	2009	2012	Training Programme to farmers and Self Help Group on Reclamation of soil and cultivation of organic crops using Vermicompost.	10,32,000.00
12	COIR BOARD	2010	2012	Scaling up of technology and training programme on preparation and application of coir pith cyanobacterial biofertilizer for field cultivation	9,93,000.00

13	UGC	2012	2015	Decolorization and degradation of textile dye industry effluents using cyanobacteria with agrowaste and vermicomposting of degraded wastes	9,55,800.00
14	DST-SERB	2016	2019	Treatment of tannery effluent using Cyanobacteria with Different agro wastes and the prospective application of treated effluents on plants	9,00,000.00

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	COIR-BOARD	2017	-	Development of Research and Training centre for Tannery waste treatment using coir pith and effective microorganisms to convert it into organic manure	15,31,800.00
2	RUSA	2021	-	Bioremediation of tannery sludge using microbial consortium with coir pith for preparation of compost and its application on plants	4,50,000

Patents

1. 03 applied

Distinctive Achievements / Awards

1. U.G.C. JRF award from 1987-1992.
2. Poster award certificate from 33rd Annual conference of A.M.I. held at Goa on 07-11-1992.
3. The best poster award certificate from diamond Jubilee symposia and 30th annual conference of A.M.I. of India held at Mangalore on 05-12-1998.
4. Student project award from TNSCST - 1999.
5. Poster award certificate from TNSCST - 1999.
6. The best poster presentation certificate from National seminar on Recent Trends in Plant
7. Biotechnology, Department of Plant Science, Bharathidasan University, Tiruchirapalli-24 on March 22-

8. 23, 2004.
9. The best poster presentation certificate from National Seminar on Advances in Plant Sciences, Department of Plant Science, Bharathidasan University, Tiruchirapalli- 24 on February 24-25th, 2006
10. The best paper presentation award from 6th National Science Communication Congress, organized by Gujarat Science City, Ahmedabad, Gujarat on October 10-15, 2006.
11. The best poster presentation award (3rd prize) from National Symposium on Recent advances in Phycology from molecule to ecosystem, organized by Department of Botany, Punjab University, Chandigarh on November 14-16, 2007.
12. The best poster presentation award from South Asian Conference on Water in agriculture: Management options for increasing crop productivity per drop of water, organized by Department of Land & Water management, IGKV, Raipur, India on November 15-17, 2007.
13. The best paper presentation award from state level seminar on Technology of Organic Farming for Rural Development on September 25-26 2008 Organized by Department of Botany, Alagappa Govt. Arts College, Karaikudi, Sivagangai Dist. Tamilnadu.
14. The best poster presentation award from National seminar on “Recent Trends in Biological Sciences on Organized by Sri Gowri Biotech Research Academy, Nagai Main Road, Thanjavur, Tamilnadu.
15. The best poster presentation award from 52nd Annual Conference of Association of Microbiologist of India (AMI, 2011): International Conference on Microbial Biotechnology For Sustainable Development on November, 03-06, November 2011 at University of Punjab, Punjab.
16. The best poster presentation award from International conference on Eco-Conservation for Sustainable Development conducted by Govt. Quid e Millath college for Women, Chennai-02 on 01-03,

February 2012.

17. The best poster presentation award (2nd prize) from National seminar on Recent advances in agricultural, biomedical and environmental biotechnology conducted by Anand Engineering College, Agra, Dept. of Biotechnology, May 1-2nd, 2015.(D. Malini and P. Malliga)
18. The best oral presentation award Received (Ist Prize) from International conference on sustainable management and conservation of natural resources in P.G and Research Department of Zoology, Periyar E.V.R college, Tiruchirapalli on 15.2.2020 (Jenifer G., J. Josphine, and P. Malliga).

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 01

1. Conducted National Level Workshop on STORMCUP (Short-Training on Research in Marine Cyanobacterial Utilization Programme) from 1994 to 1997.
2. Workshop on Research Techniques in Cyanobacteriology (WORTIC) National Level Workshop from 1999 to 2009.
3. Conducted one day state level seminar on scope of organic farming and sustainable Agriculture on 28.02.2009 sponsored by UGC and Bharathidasan University in Bharathidasan University, Trichy.
4. Conducted three days National Level Seminar and Training on Organic Farming and Mass Production of Cyanopith on 03-05 march 2010 sponsored by TNSCST and Thaa Trust in Bharathidasan University, Trichy.
5. Conducted one day Training Programme to farmers and Self Help Group on Reclamation of soil and cultivation of organic crops using vermicompost on 15/05/2010 sponsored by DBT and TNSCST in Lalgudi, Trichy.

6. Conducted training and seminar on “Terrace Gardening” at Model Organic Farm, Bharathidasan University, Trichy from 27th to 30th October 2014.
7. Co-organized 10 days workshop on “Microbial processes for Lignocellulosic Biofuel production” sponsored by Global Initiative Academic Networks (GIAN) from 18th to 27th December 2017.

Events Participated (optional)

Conferences / Seminars / Workshops:

1. National Conference on Microbial Technology for Sustainable Development (NCMITSUD) organised by Department of Biology, The Gandhigram Rural Institute - Deemed University, Gandhigram, Dindigul Dt. Tamil Nadu, India on 1st and 2nd February 2013. **Chaired a session** : Microbiology of Waste Management and Bio-Energy.
2. Association of Microbiologists of India 55th Annual Conference organized National conference on Empowering Mankind with Microbial Technologies (AMI-EMMT-2014) at Tamil Nadu Agricultural University, Coimbatore, India from 12th to 14th November 2014. **Poster Presented** : Treatment of solid and liquid waste using cyanobacteria.
3. Jawaharlal Nehru University (JNU), New Delhi organized 56th Annual Conference of Association of Microbiologists of India (AMI-2015) & International Symposium on Emerging Discoveries in Microbiology from 7th to 10th December 2015. **Participated** in the conference conducted by School of Life Sciences, JNU, New Delhi, India.
4. Rajiv Gandhi National Institute of Youth Development (RGNIYD), Ministry of Youth Affairs & Sports, Government of India, Sriperumbudur, Tamil Nadu, India conducted Workshop on “Women Connect for Leadership and Change” Organized by Dept. of Gender studies, RGNIYD from 3rd to 8th February 2016. **Participated** in Women Connect for Leadership and Change workshop.
5. International Conference on Microalgal and Cyanobacterial Biotechnology organised by NFMC, Department of Marine Biotechnology, Bharathidasan

University, Trichy held from 29th to 31st August 2016. **Paper presented** : Adsorption of textile dye effluent using groundnut shell (adsorbent)kinetic and equilibrium studies.

6. National Conference on Recent Trends in Biotechnology (Biotrends- 2016) & Annual meet of the society for Biotechnologists (India) jointly organized by NIOT, Chennai & Society for Biotechnologists (India) from 19th to 21st October 2016. **Participated** in the conference regarding recent trends in biotechnology.
7. UGC-sponsored two day workshop for academic administrators at Bharathidasan University, Trichy held from 12th to 13th March 2018. **Participated** in workshop regarding the topic Institutional Assessment and Accreditation.

Other Training Programs

1. Participation / Evaluation in National Children's Science Congress (1996- 2002)
2. Served as Deputy Warden for School of Engineering & Technology for women (2002)
3. Students Welfare and discipline: Counseling & giving Guidance's for doing Research in National & International level.
4. Conducted National Level Workshop on STORMCUP (Short-Training on Research in Marine Cyanobacterial Utilization Programme) from 1994 to 1997.
5. Awareness cum Training Programme on "Organic Farming and Vermicomposting for Rural Farmer" at Saraswathi Narayanan College, Madurai-22 during 17-18, October 2005.
6. Given Training on cyanobacteria cultivation for Kudumbam staff members and srilankan team during 27.07.06 in the Department of NFMC, Bharathidasan University, Trichy.
7. Training to staff members of Kudambam (an organization of for Rural Development), in Kolunji. Ecological farm and Trainig Centre, during 10-8-2006 on Cayanobacterial Cultivation and their uses in Agriculture.
8. Training programme on "Development of coir pith based Cyanobacterial biofertilizer and Organic Farming" to Farmers, NGO, Coir Industries in the department of NFMC

and Department of Woman studies, Bharathidasan University, Trichy on 9-10 December 2006.

9. Training programme on “Development of coir pith based Cyanobacterial biofertilizer and Organic Farming” to Women self help group members on 29-12-06 sponsored by Centre for Women Studies, Bharathidasan University, Tiruchirappalli-24.
10. Given training to self help group member of Puthur Uthamanoor on ‘Cyanopith Biofertilizer production’ organized by The department of NFMC and Department of Woman studies, Bharathidasan University, Trichy, on 21 / 1 / 2007.
11. Training programme for “Development of coir pith based Cyanobacterial biofertilizer and Organic Farming” to Women self help group members on 22-24, January 2007, 2,3 & 5, February 2007 and 19-24, March 2007 sponsored by District Rural Development Agency, Tiruchirappalli.
12. Given Training to women panchayat level Federation Leaders at Gramalaya Training centre, kolakudipalli on 23.01.07.
13. Participated and delivered lecture on Organic manure preparation with combination of Bluegreen algae and Coir pith in follow up meeting with Coimbatore District Herbal and tree growers association on 6-8-2007 at Forest department, Government of Tamilnadu, Coimbatore.
14. Conducted Demo cum Meeting of Cyanobacterial Action on Coir pith for the members of Coimbatore district herbal and tree growers association on 11/08/2007 at Coimbatore.
15. Training to the students of MSW on Cyanopith Biofertilizer preparation during 4 / 9 /2007 in the department of NFMC and model organic farming Bharathidasan University, Trichy.
16. Attended “Zero Budget Training” programme at Erode during December 29, 2007 – January 1st, 2008.
17. Attended two days awareness and action programmes for women on promotion of naturopathy and yoga sponsored by NIN (National Institute of Naturopathy), Pune, April 16, 17, 2008 organized by Arivagam Trust, Pallapuram, Lalgudi, Tamilnadu, India.

18. Conducted Training programme on Development of Coirpith based Cyanobacterial Biofertilizer and organic farming from 19th – 21st June, 2008 for farmers in Collaboration with SEESDO, Arivagam in the Department of NFMC and Model organic farming, Bharathidasan University, Trichy-24.
19. Awareness programme on “Development of coir pith based Cyanobacterial biofertilizer and Organic Farming” to Tiruchirappalli District School Childrens on 08-08-2008 sponsored by Exnora, Isnaegam,Samarpanam Tiruchirappalli.
20. A Live conversation on Organic farming in suriyan FM telecasted on 24.07.2008
21. Workshop on Research Techniques in Cyanobacteriology (WORTIC) National Level Workshop from 1999 to 2009.
22. Conducted one day National level seminar and two days training programe on Organic farming and Mass Production of cyano pith for Farmers on 3rd – 5th March, 2010.
23. Conducted one day Training Programme to farmers and Self Help Group on Reclamation of soil and cultivation of organic crops using Vermicompost on 15/05/2010.
24. Conducted one day Training Programme to farmers and Self Help Group on Reclamation of soil and cultivation of organic crops using Vermicompost on 24/09/2010
25. Training programme on Scaling up of technology and training programme on preparation and application of coir pith based cyanobacterial biofertilizer for field cultivation at keeranur, Pudukottai on 06-07-2011.
26. Training and seminar on preparation and application of coir pith based cyanobacterial biofertilizer for field cultivation at Sri Saraswathy Thiagaraja College, Pollachi, on 28.09.2011
27. Conducted training and seminar on “Terrace Gardening” at Model Organic Farm, Bharathidasan University, Trichy during 27th -30th Oct 2014.

Overseas Exposure / Visits

1. International Workshop and training course held at Pannon Agricultural University, Mosonmagyaróvár, Hungary, 13-26 June 1999.
2. United Kingdom from 01-08-2002 to 10-11-2002 under INSA-RS visiting research fellow.
3. 7th International Conference on System Biology, at Yokohama, Japan, 08-13, October 2006.
4. Visited Udayana University, Bali, Indonesia and delivered guest lecture entitled “Marine Biotechnology with special references to Cyanobacteria” on 9th August, 2018.
5. Visited for conducting training programme on cyanobacterial research from 3.10.2019- 28-10-2019 at the Department of Chemical and Biological Science and Engineering, School of Mines & Technology, Rapid City, South Dakota, USA.

Membership in

Professional Bodies

1. Life member in Society of Educational Technology, India.
2. Life member in Association of Microbiologists of India.
3. Member in Enviro Media, Karad, Maharashtra, India.
4. Member in Indian Science Communication Congress.

Editorial Board

1. Brazilian Archives of Biology & Technology (BABT) titled “Pineapple waste and wastewater: Route for Biodiesel Production from *Candida tropicalis*, December 2018

Academic Bodies (such as Board of Studies etc.,)

1. Acted as selection committee member for Doctoral committee, Department of Archaeology, Tamil University, Thanjavur held on 03rd May 2012.
2. Acted as selection committee member for upgrading RGNF fellow from JRF to SRF, Department of Marine Biotechnology, Bharathidasan University, Trichy held on 17th February 2016.
3. Acted as selection committee member for the recruitment of Assistant Professor, Department of Chemistry, Poompuhar College (Autonomous), Melaiyur, Nagapattinam Dt. held on 25th February 2016.
4. Acted as selection committee member for the recruitment of Assistant Professor, Department of Botany, A.V.C College, Mannampandal, Mayiladuthurai, Tamil Nadu held on 13th April 2016.
5. Acted as selection committee member for the recruitment of the post of Principal, Seethalakshmi Ramaswami College, Trichy held on 02nd August 2017.
6. Acted as selection committee member for the recruitment of Director of Physical Education, Ganesar College of Arts & Science, Melasivapuri, Pudukkottai Dt. held on 30th November 2017.
7. Acted as selection committee member for the recruitment of Assistant Professor for the Department of Commerce, Nehru Memorial College, Puthanampatti held on 27th December 2017.

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 29

1. Delivered lecture on Degradation of Lignocellulosic wastes by cyanobacteria -A potential source for biotechnological value, National Level Workshop on WORTIC & WOBIC (Workshop On Research Techniques in Cyanobacteriology) training programme from 1999 to 2008.

2. Delivered guest lecture in Awareness cum training programme on Organic Farming and Vermicomposting for Rural Farmers” on 17th-18th,October 2005, at The seminar hall, Saraswathi Narayanan College, Madurai.
3. Attended and delivered lecture in National workshop cum training on *Spirulina* cultivation: potentials & prospects (Spirutech-2006) during January 23rd -25th 2006 at Department of Post-Graduate Studies and Research in Biological Sciences, Rani Durgavati University, Jabalpur (M.P.), India.
4. Delivered Lecture on Profit earning Organic Farming in Tamilnadu Women Entrepreneurs welfare association meeting organized by TIDITSSIA STED and Centre for Women Studies, Bharathidasan University on 29.07.2006.
5. Delivered Lecture in National seminar on Organic Farming:Trends and Challenges, on “Develoment and Application of coir based cyanobacterial Biofertilizrs for the field” organized by Department of Rural development Science, Arul Anandar College, Karumathur on 27.11.2006.
6. Delivered Lecture on Coir pith based Cyanobacterial Biofertilizer and Organic Farming to members of sembarai farmers association organized by Sembarai workers Association on 04.01.2007.
7. Delivered special lecture on “Preparation of coir pith based cyanobacterial biofertilizer” in special conference conducted by Coimbatore District Herbal &Tree Growers Association on 31.07.2007.
8. Delivered special lecture in seminar on the collaborative project with SITRA PSG College of Technology, on 21st August, 2007.
Title of Lecture: preparation and application of coir pith based cyanobacterial biofertilizer for paddy cultivation at PSG college of Technology, Coimbatore.
9. Attended and delivered lecture in one day workshop on coir pith degradation by cyanobacteria and organic farming in awareness creation of REMOT SCHEME at Pattukkottai on 11.7.2008, organized by Coir Board Regional office of Pollachi.
10. Delivered lecture in one day seminar on creating awareness for young students and scientist on organic farming and practices, sponsored by TNSCST, Chennaion 16 / 2 / 2008 organized by Sri Venkateshwara College of Arts and Science, Peravoorani.
Lecture: Preparation and applications of coir pith based cyanobacterial biofertilizer.

28. Delivered lecture, in SEESDO GENTS HOSTEL on ‘An Introduction to Cyanobacteria and it’s potentials’ organized by Arivagam Trust on 1 / 3 / 2008 & sponsored by Ministry of Environment and forestry, New Delhi & Regional Resource Agency.
29. Delivered lecture and awareness to the self help group members on ‘Coirpith based Cyanobacterial Biofertilizer and organic farming’ organized by DEEM (Development of Education and Environment Movement) in AICUF, St.Joseph College, Trichy, from 24 / 3 / 2008 to 30 / 3 / 2008.
30. Delivered lecture to (SARD) Staff of Sustainable Agriculture Research & Development project of Monlar, Srilanka, on ‘Comparative effect of chemical fertilizer and natural farming’ at The Department of NFMC, Bharathidasan University, Trichy-24 on 27 / 3 / 2008.
31. Delivered lecture on ‘organic farming in an awareness programme organized by student’s Exnora on July 16, 2008 in Bishop Heber College,Trichy.
32. Delivered lecture for “Development of coir pith based Cyanobacterial biofertilizer and Organic Farming” to College Students on 06-08-2008 sponsored by Dept. of Microbiology, Cauvery College for Women, Tiruchirappalli-18.
11. Delivered guest lecture in state level seminar on Technology of Organic Farming for Rural Development on septmenber 25-26 2008 Organized by Department of Botany , Alagappa Govt. Arts College, Karaikudi, **Sivagangai Dist.** Tamilnadu.
12. Delivered Lecture on Coir pith composting using cyanobacteria in a one day workshop on coir pith composting on 06.11.08 organized by Periyar Technology Business Incubator, Periyar Maniammai University, Vallam, Thanjavur.
13. Delivered Lecture on Organic Farming and Sustainable Agriculture for Kudumbam staff members and Srilankan team during 16.03.09 in the Department of NFMC, Bharathidasan University, Trichy.
14. Delivered a special lecture on ‘ Role Of Cyanobacteria In Bioremediation And Their Value Added Products In Biotechnology’ in the National level workshop on 17th February 2010 conducted by National Facility for Marine Cyanobacteria, Bharathidasan University, Trichy - 24

15. Attended and delivered National level Tamil science conference on October, 07 and 08, 2010, conducted by Tamil Science community of Tamilnadu Government and Manomaniyam Sundaranar University, Kanniyakumari.
16. Dindigul Naidu Mahajana Sangam welfare Trust in association with Regional office, Coir Board, Pollachi organized a special lecture regarding Coir and its products in the present scenario on 14th March 2012. Special lecture : Cyanopith and Cyanospray preparations and applications ; Opportunities of Coir and its products in the present scenario.
17. The Regional office, Coir Board, Pollachi organised a special lecture regarding coir and its products in present scenario at Salem on 22nd March 2012. **Special lecture** : Cyanopith and cyanospray preparations and applications; Opportunities of Coir and its products in the present scenario.
18. Delivered lecture on “Production and Application of Cyanopith and Cyanospray Fertilizers for Improving Crop Yield” on 16.04. 2013 for the program START (Short Term Training on Advanced Research Techniques) held in NFMC, Bharathidasan University, Trichy.
19. Delivered lecture on “Cyanobacterial Deface” an overview on 22.5.13 for the program ‘Science Academics’ Refresher course on Modern Biotechnology; Concepts and Practice, held on 15.05.2013 to 29.05.2013, sponsored by IAS, Bangalore, INSA, New Delhi organized by School of Biotechnology, MKU, Madurai.
20. Delivered lecture on “Encompassing and Integration of Cyanobacteria in Bioremediation of Industrial Solid and Liquid Wastes to Prepare Organic Fertilizers” on 17.11.13 for “National Conference Frontiers of Algologists and Algal Biotechnology” (NCFAAB) held on 15.11.13 to 17.11.13 at Viswa Bharathi, Santiniketan, West Bengal.
21. National Conference on Microbial Technology for Sustainable Development (NCMITSUD) organised by Department of Biology, The Gandhigram Rural Institute - Deemed University, Gandhigram, Dindigul Dt. Tamil Nadu, India on 1st and 2nd February, 2013. **Delivered Lecture** : Role of Microorganism in Organic and Inorganic Farming - An Overview.
22. Saraswathi Narayanan College (Autonomous), Department of Botany, Perungudi,

- Maduraiorganised a Workshop on Scientific Awareness to Rural People on 26th February 2013. **Delivered Lecture** : Solid Waste Management.
23. National Facility for Marine Cyanobacteria (NFMC), Bharathidasan University, Trichy organised a Short Term training on Advanced Research Techniques (START) on 16th April 2013. **Delivered lecture** : Production and Application of Cyanopith and Cyanospray Fertilizers for Improving Crop Yield.
 24. Refresher course on Modern Biotechnology; Concepts and Practice sponsored by IAS, Bangalore; INSA, New Delhi and organized by School of Biotechnology, MKU, Madurai for the program „Science Academics“ held from 15th to 29th May 2013. **Delivered lecture** : “Cyanobacterial Deface” an overview.
 25. National Conference on Frontiers in Algology and Algal Biotechnology (NCFAAB), Visva Bharati (A Central University), Santiniketan, West Bengal organised a conference in Algology and Algal Biotechnology from 15th to 17th November 2013. **Paper Presented** : Encompassing and Integration of Cyanobacteria in Bioremediation of Industrial Solid and Liquid Wastes to Prepare Organic Fertilizers.
 26. Government Girls High School, Manachanallur, Trichy organized NSS programme on 01st October 2014 . **Invited Lecture** : Organic Farming.
 27. Women Entrepreneurship Association, Trichy, Tamil Nadu organized one day program at St. Paul’s Complex, Bharathiyar Salai, Trichy on 13th October 2014. **Invited Lecture** : Terrace Gardening.
 28. Women Entrepreneurs Association of Tamil Nadu (WEAT) and Department of Women Studies, Bharathidasan University organized a one day conference on 27th October 2014at Bharathidasan University, Trichy. **Delivered Lecture** : Terrace Gardening and Technical opportunities regarding organic manure.
 29. Sri Renga Polytechnic College, Srirangam, Trichy conducted a one day program on 09th December 2014. **Invited Lecture** : Organic Farming.
 30. The Aura, K.K.Nagar, Trichy organized a program on the occasion of celebrating 10th year anniversary at Hotel Sangam, Trichy on 12th December 2014. **Special Lecture** : Terrace Gardening.
 31. National Seminar on Recent Advances in Agricultural-, Biomedical- & Environmental Biotechnology (ABEB) from 01st to 02nd May 2015 at Anand

Engineering College, Dept. of Biotechnology, Agra. **Delivered lecture** : Bioremediation of solid sustainable agriculture.

32. Served as a Resource person at Bharathidasan University constituent college, Kurumbalur, Perambalur Dt. supported by Tamil Nadu State Council for Science & Technology, Govt.of Tamil Nadu held on 03rd August 2015. **Delivered lecture** : “OrganicFarming” in the Application of Science and Technology (ASTRA).
33. Saraswathi Narayanan College (Autonomous) Perungudi, Madurai invited on the occasion of the inauguration of Botany Association held on 18th May 2015 as chief guest. **Delivered Lecture** : Employment opportunities in the field of Botany.
34. Served as Resource Person for Valediction of all Association (Academics) Activities at Jamal Mohamed College, Trichy on 14th March 2016.
35. National Institute of Technology Calicut, Kozhikode, Kerala, India conducted TEQIP II sponsored two days National workshop on “Algal Technology and its Applications” from 17th to 18th March 2017. **Delivered lecture** : “Cyanobacterial bioremediation with special reference to tannery, textile effluent and Coir pith”.
36. National Facility for Marine Cyanobacteria (NFMC), Department of Marine Biotechnology, Bharathidasan University, Tiruchirappalli organised a short term training course on “Advanced Research Techniques on Genomics, Proteomics & Bioinformatics - ARTGPB 17” from 7th to 21st November 2017 and also served as a Resource Person. **Delivered lecture** : Bioremediation of industrial wastes using microorganisms to convert into organic fertilizer for plant application.

Others

1. Articles published in Newspapers / Magazines : 03
2. Products developed : Cyanospray and Cyanopith (Coir Board)
3. No. of PhD Thesis evaluated : 15
4. No. of PhD Public Viva Voce Examination conducted : 10

**Social Interests and Initiatives / Articles in News papers etc can also be included

Recent Publications

1. 1. Subramanian, G. and **P. Malliga**, 1988. Isolation of *Anabaenaazollae* from the megasporocarp of *Azolla*. *Curr. Sci.*,**57 (24)**: 1352-53. **IF: 0.802**
2. **Malliga, P.** and G. Subramanian, 1989. Effect of certain chemicals on the in vivo status of the endosymbiont *Anabaena azollae* in *Azolla pinnata* R.Br. *Curr. Sci.***58 (11)**: 634-635. **IF: 0.802**
- 3.**Malliga, P.** and G. Subramanian, 1990. The Effect of Growth Regulators, colchicines and salt stress on *Azolla pinnata*. *J. Indian bot. Soc.***69**: 347-350. **IF: 1.25**
4. **Malliga, P.** and G. Subramanian, 1995. Bacteria associated with leaf cavities of *Azolla pinnata* R.Br. *Indian Journ. Of Microbio.***35(1)**: 21-24. **IF: 2.461**
5. **Malliga, P.**, Uma, L. and G. Subramanian, 1996. Lignolytic activity of the cyanobacterium *Anabaena azollae* ML2 and the value of coir waste as a carrier for BGA biofertilizer. *Microbios* **86**: 175-183. **IF: NA**
6. **Malliga, P.** and G. Subramanian, 2002. Cyanobacterial Biofertilizer for Sustainable Agriculture In: Proceedings of national symposium on *Bioinoculants for sustainable Agriculture and forestry*. pp. 99-106. **IF: NA**
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<https://doi.org/10.33765/thate.10.3.2> **IF: 2.3**

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Details of Research Guidance

S.No	Name	Reference Number	Subject	Status
1.	P. Varalakshmi	05951/Ph.D/PT/Microbiology/ Oct. 2001	Microbiology	Degree awarded
2.	B. Anandaraj	15504/Ph.D/PT/Microbiology dt.25.07.2001	Microbiology	„
3.	V. Viswajith	3054/Ph.D.1/FT/Microbiology/ April 2004	Microbiology	„
4.	P. Chandrasekaran	31033/Ph.D.1/PT/Microbiology dt.01.04.2005	Microbiology	„
5.	D. S. Prabha	10891/Ph.D.1/Micro/FT/July 2006	Microbiology	„
6.	B. Bhuvaneshwari	14161/Ph.D.1/PT/Microbiology dt. 25.05.2007	Microbiology	„
7.	V. Subramanian	38047/Ph.D.1/FT/Micro.biotech /April 2009	Microbial Biotechnology	„

8.	S.Krishna Moorthy	26153/Ph.D.1/Microbial Biotechnology/FT/ April 2009	Microbial Biotechnology	„
9.	S. Durai raju	10902/Ph.D.1/Microbiology/FT /Jan 2009	Microbiology	„
10.	G. Manoharan	41329/Ph.D.1/FT/Micro.biotech /July 2009	Microbial Biotechnology	„
11.	K. Chitra Devi	10627/Ph.D.1/Microbial Biotechnology/FT/Jan 2011	Microbial Biotechnology	„
12.	S. Jenny	13146/Ph.D.K1/Microbiology/F T/July 2013	Microbiology	„
13.	K. Lakshmi	44680/Ph.D.1/Botany/FT/Re.re g/Jan 2017	Botany	„
14.	Bela Rani Bhagat	8426/Ph.D.K1/Microbiology/FT / April 2013	Microbiology	„
15.	N.Shanmuga Priya	23524/Ph.D.K1/Microbiology/F T/Oct 2013	Microbiology	„