



Dr. M. JOTHI BASU

Associate Professor in Botany
(Academic Level-13A)

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Academic Qualifications:

Course	Subject	University	Year of Completion	Class
Ph. D.,	Botany	Madurai Kamaraj University	2008	
M. Sc.,	Botany	Madurai Kamaraj University	1997	I
B. Sc.,	Botany	Madurai Kamaraj University	1994	I

Additional Responsibilities:

1. Director, Alagappa University Community Radio Station (2022- Till Date)
2. Head i./c., Department of Theatre and Film Studies (2020- Till Date)
3. Coordinator, Cultural Club (2013- 2016; 2018- February,2023)
4. Organizing Secretary, 35th AIU, South Zone Inter- University Youth Festival (2019)
5. Coordinator, 12th National Youth Parliament Competitions (2015)
6. Programme Coordinator, M. Sc., Botany (DDE) (2009- Till Date)
4. Special Invitee, Centre for Internal Quality Assurance, DDE (2020)

Teaching Experience: 13 Years

Research Experience: 12 Years

Areas of Research:

1. Plant- Microbe Interactions
2. Plant Based Biopolymers

Research Supervision / Guidance:

Program of Study		Completed	Ongoing
Research	Ph.D.	-	4
	M.Phil.	2	-
	PG	10	-

Publications:

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
42	57	8	6	4

h-index : 8
i10index : 7
Total Citations : 491

Funded Research Projects:**Completed**

Sl. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	AURF	2009	2011	Studies on Fucoidans of Brown Algae from Palk Strait and Gulf of Mannar	0.64
2	DST-SERB	2016	2019	Studies on the role of anthropogenic cues in the foraging shift of honey bees and its impact on plant pollination at various ecosystems of Tamil Nadu. (Mentor)	33.49

Ongoing

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	TBRP, RUSA 2.0, MHRD, GoI.	2019	2021	Alternative and Renewable Energy from the Agro wastes for Human Welfare	7.00

Events organized in leading roles:**Number of Seminars / Conferences / Workshops / Events organized: 19**

1. Coordinator, Alagappa University Talent Exhibit Show- 2013 (ALUTES-2013) on 16-21 Sep. 2013
2. Coordinator, Workshop on Street Theatre and Folk Media on 13-15 Feb. 2014
3. Coordinator, Alagappa University Inter-Collegiate Talent Exhibit Show- 2014 (AlaguAaram- 2014) on 20-22, Feb. 2014.
4. Coordinator, Chettinad Heritage Cultural Programmes Recordings for DoordharshanPothigai Channel on 26 March 2014
5. Coordinator, Alagappa University Talent Exhibit Show- 2014 (ALUTES- 2014) on 06-11 Oct. 2014
6. Coordinator, Alagappa University- Junior Vikatan Magazine's "Thamizh Manne Vanakkam" on 27 Feb. 2015

7. Coordinator, Alagappa University Inter-Collegiate Talent Exhibit Show- 2015 (AlaguAaram- 2015) on 19-21 March 2015
8. Coordinator, Group Level competition of 12th National Youth Parliament Competitions on 13 April 2015
9. Coordinator, Alagappa University Talent Exhibit Show- 2015 (ALUTES- 2015) on 06-10 Oct. 2015
10. Coordinator, Alagappa University Inter-Collegiate Talent Exhibit Show- 2016 (AlaguAaram- 2016) on 18&19 march 2016.
11. Coordinator, UGC Sponsored Three Days Skill Development Programme for Students: Empowering Skills on Folk Media, 2017
12. Member, Advisory Committee, Alagappa University Inter-University Cultural Festival – 2017 VASANTHAM 2017.
13. Co-organizing Secretary, One Week Workshop on “Research Methodology”, 2017.
14. Organizing Secretary, South Zone Inter- University Folk Festival – Urumi 2018
15. Coordinator, Alagappa University Talent Exhibit Show – ALUTES 2018
16. Coordinator, Alagappa University Inter-colligate Talent Exhibit Show – ALAGU AARAM 2019.
17. Organizing Secretary, RUSA 2.0 Sponsored Two Days International Conference on Innovative and Emerging Trends in Botany – 2019.
18. Organizing Secretary, Alagappa University Talent Exhibit Show – ALUTES 2019.
19. Organizing Secretary, AIU 35th Inter- University South Zone Youth Festival – 2019.

Events Participated:

Conferences / Seminars / Workshops/ Webinars: 59

1. SERB sponsored International Conference on Emerging Trends in Biotechnology and Bioeconomy (ICEBB-2023) organized by Department of Biotechnolgy, Manonmaniam Sundaranar University, held on March 9 &10 at Tirunelveli.
2. Participated in National Science Day and Second BioForum Annual Conference on Biological Sciences, organized by Department of Biotechnology, The Madura College, on 1st & 2nd March, 2023, at Madurai.
3. Participated in Fourth International Conference on Recent Trends in Microbiology- RTM- 2023, organized by Department of Microbiology, Alagappa University, Karaikudi on 5 &January, 2023.
4. SPARC sponsored International Online Short Term Course on Recent Applications of Polymers organized by Department of Microbiology, Alagappa University, Karaikudi, 3-

- 5, May, 2021.
5. Webinar on Science Skilling organized by Chennai Science Colloquium, Chennai, 20th February, 2021.
 6. National Webinar on National Education Policy 2020 Empowering Student organized by Centre for Consumer Studies, Indian Institute of Public Administration, New Delhi, 28th January, 2021.
 7. 7 Day Webinar on Life of Cinema and Cinema for Life, organized by Department of Theatre and Film Studies, Alagappa University, Karaikudi, 25-31, August, 2020.
 8. UGC STRIDE Component I sponsored Two-Week Online Capacity Building Programme for Faculty Members and Research Scholars organized by Alagappa University, Karaikudi 16-23, June, 2020.
 9. Recent Approaches and Human Genes Against COVID 19. Webinar organized by DDE Zoology Wing & Department of Animal Health and Management, Alagappa University, Karaikudi. 11th June, 2020
 10. Participated in SPARC and RUSA Phase 2.0 Sponsored International Conference on Recent Trends in Bioplastics (RTB - 2019) Organized by Department of Microbiology, Alagappa University, Karaikudi on 9th & 10th December 2019.
 11. Participated in RUSA 2.0 Sponsored International Conference on Innovative and Emerging Trends in Botany – 2019 (ICIETB - 2019) Organized by Department of Botany, Alagappa University, Karaikudi on 6th & 7th, November 2019.
 12. Participated in RUSA 2.0 & INSA sponsored 3rd International Conference on Recent Trends in Microbiology (RTM-2019) Organized by Department of Microbiology, Alagappa University, Karaikudi on 24 & 25, January 2019.
 13. Participated in CIL, Mysore sponsored National Seminar on Humanism in Indian Literature (HIIL- 2018), organized by Department of Education, Directorate of Distance Education, Alagappa University, Karaikudi on 18th & 19th November, 2018.
 14. Participated in ICSSR sponsored National Seminar on Quality Education for the Students Belonging to the Margenialized Sectors in India (QESBMS- 2018), organized by Department of Education, Directorate of Distance Education, Alagappa University, Karaikudi on 15th & 16th March, 2018.
 15. Participated in Second International Conference on Recent Trends in Microbiology- RTM- 2018, organized by Department of Microbiology, Alagappa University, Karaikudi on 11th & 12th January, 2018.
 16. Participated in Sixth National Conference on Emerging Trends and New Challenges in

Biotechnology- Advances in Biomaterials and Applications (NCETNCB- 2018) organized by P. G. and Research Centre in Biotechnology, MGR College, Hosur on 31st January & 1st February, 2018.

17. Participated in The Science Academies' Lecture Workshop on Recent Trends in Microbiology and Biotechnology (RTIMB- 2018) organized P.G. and Research Centre in Microbiology, MGR College, Hosur on 30th and 31st January, 2018.
18. Participated, Chaired a session in Second International Conference on Recent Trends in Microbiology, RTM- 2018 organized by Department of Microbiology, Alagappa University, Karaikudi on 11th and 12th January, 2018.
19. Participated in Tamil Nadu History Congress Twenty Fourth Session- 2017, organized by Department of History, Alagappa University, Karaikudi on 6th – 8th October, 2017.
20. Participated in UGC sponsored National Conference on Trends in Microbiology- 2017 (NCTM- 2017), organized by Department of Microbiology, Alagappa University, Karaikudi on 27th September, 2017.
21. Participated in International Conference on Frontier Areas in Chemical Technologies- 2017 (FACTs- 2017), organized by Department of Industrial Chemistry, Alagappa University, Karaikudi on 6th - 8th July, 2017.
22. Participated and acted as Rapporteur in UGC sponsored National Conference on Human Rights Education, organized by Department of History, Alagappa University, Karaikudi on 14th & 15th March, 2017.
23. Participated in International Conference on Mathematical Modeling And Computational Methods in Science and Engineering (ICMMCMSE-2017), organized by Ramanujan Centre for Higher Mathematics and Department of Mathematics, Alagappa University, Karaikudi on 20th - 22nd February, 2017.
24. Participated in National Conference on Emerging Strategies in Green Textiles and Sustainable Fashion (NCESGTSF- 2017), organized by Alagappa Institute of Skill Development, Alagappa University, Karaikudi on 10th & 11th January, 2017.
25. Participated in National Workshop on Gas Chromatography organized by Department of Microbiology, Alagappa University, Karaikudi on 15th December, 2016.
26. Participated and chaired a session In: International Conference on Recent Trends in Microbiology, organized by Department of Microbiology, Alagappa University, Karaikudi on 20th & 21st December, 2016.

27. JothiBasu, M. 2016. Participated at National Conference on Swami Vivekanandar: A Youth Icon (SVYI- 2016), organized by Swami Vivekananda Centre for Higher Research and Education, Alagappa University, Karaikudi on 24th October, 2016.
28. JothiBasu, M. 2016. Participated and Chaired a session entitled “ Traditional Education in India” at National Seminar sponsored by Indian Council of Historical Research on Educational Practices in Chola Kingdom (850-1279 AD) EPICK- 2016, organized by Dept. of History and Directorate of Distance Education, Alagappa University on 6th and 7th October, 2016.
29. Participated In International Workshop on Molecular Physiology, Therapeutics and Experimental Medicine (MPTEM-2016) organized by Department of Animal Health and Management, Alagappa University, Karaikudi on 6th and 7th September, 2016.
30. JothiBasu, M. 2016. Participated and presented two papers entitled “ Investigation of the potential bioactive compound from *Luffa acutangula* against transcription factor of nuclear factor Kappa B (NF-KB)” and “Exploring antibacterial drug from AgNPs of *Pedalium murex*-Medicinal plant extract” at International Conference on Recent Advances in Modern Medicine Molecular Signalling Scenarios in Tissues and Diseases, organized by R & D wing, SreeBalaji Medical College and Hospital, Bharath University (BIHER), Chromepet, Chennai on 3rd and 4th September, 2016.
31. JothiBasu, M. 2015. Participated and chaired a session. In ICSSR sponsored Two-day National Conference on Impact of Electronic Resources on Teaching, Learning and Research: Issues and Opportunities organized by Central Library & Directorate of Distance Education, Alagappa University, Karaikudi on 24th and 25th April, 2015.
32. JothiBasu, M. 2015. Participated in One day International seminar on Recent Trends & Future Prospects of Biological Sciences organized by Aringar Anna College (Arts & Science), Krishnagiri on 17th April, 2015.
33. JothiBasu, M. 2015. Participated and chaired a session. In DST-SERB sponsored 3rd national Conference on Emerging Trends and New Challenges in Biotechnology – An Environmental Approach (NCETNCB-2015) held at P. G. and Research Centre in Biotechnology, M.G.R. College, Hosur, Tamilnadu on 23rd and 24th February, 2015.

34. Participated in one day Workshop on MetrohmAutolab Electrochemical Instruments for Biosensor Energy and Corrosion Applications organized by Department of Bioelectronics and Biosensor, Alagappa University, Karaikudi on 16th February, 2015.
35. Participated in Microsoft sponsored SAKSHAM: IT Champion Training Program conducted by The Computer Centre, Alagappa University, Karaikudi on 19th to 25th January, 2015.
36. Sudha, P. Srinivasan. and M. JothiBasu. 2014. Inhibition of Ebola virus proteins by phytochemical compounds: A computational analysis, In International Conference on Physiology and Medicine (ICPM)- 2014 held at Department of Zoology, Periyar University, Salem, Tamilnadu on 15th to 17th October, 2014.
37. JothiBasu, M, Rajendran, K and Balasundaram, M. 2011. Medicinal plant utilization by ethnic group- Paliyar of Attuparai settlement in Theni District of Tamil Nadu, India. In International Conference on Traditional Medicine 2011 (CONTRAMED-2011) held at Pulau Pinang, Malaysia organized by UniversitiSains Malaysia, Malaysia on 29th and 30th November, 2011.
38. Presented a paper entitled “*In silico* screening of medicinal plants for the inhibition of virulent protein, Hap R of *Vibrio cholerae* using molecular docking simulation” at International Training in Global Infectious Diseases (GID), US-India Joint Training Program Workshop on Advanced Technologies and Research Proposal Development held at Jawaharlal Nehru University, New Delhi, India. January 30th to February 5th, 2011.
39. Rajendran, K. and JothiBasu, M. 2010. Common and cultivated oil yielding plants of Western Ghats of southern parts of Tamilnadu. In IUCN, Department of Biotechnology, Ministry of Earth Science, and UGC-UPE sponsored National Conference on Biodiversity for Sustainable Development: Threats, Indicators, Climate Change, Poverty Alleviation and Targets for Safeguarding Biodiversity held at Madurai Kamaraj University, Madurai on 25th to 27th August, 2010.
40. JothiBasu, M. and Santahanakarthiskeyan, S. 2010. ICTs a boon for distance learning system. In National Conference on Expansion of Distance Education-Experiences and Expectations held at Alagappa University, Karaikudi on 7th and 8th July, 2010.

41. JothiBasu, M. Participated in National Seminar on Evolving Strategies for Employability of Students in Higher Education held at Alagappa University, Karaikudi on 23rd and 24th April, 2010.
42. Workshop on Constructivism Based Learning Approach conducted by Directorate of Distance Education, Alagappa University, Karaikudi. March 19th, 2010.
43. Workshop on Modern Biology and Development of Research Programme for College/University Teachers held at School of Life Science, Jawaharlal Nehru University, New Delhi on 14th to 16th, December 2009.
44. JothiBasu, M. and Kannapiran, E. 2009. Global Dimming. In UGC sponsored National Seminar on Promoting environmental values among the teacher trainees at secondary level held at Alagappa University, on 22nd and 23rd October, 2009.
45. JothiBasu, M. Participated in One day Seminar on Ahimsa and animal alternatives-The implication and benefits of teaching humane science held at Bharathidasan University, Thiruchirappalli on 2nd October, 2009.
46. Kannapiran, E. and JothiBasu, M. 2009. "KadalPasukkal". In Ninth Conference of Tamil Science Congress held at Alagappa University, on 11th to 13th of September, 2009.
47. Workshop for Lesson Writers on Distance Education Programmes conducted by Directorate of Distance Education, Alagappa University, Karaikudi. March 11th and 12th June, 2009.
48. JothiBasu, M. Participated in National Seminar on Application of Genomics and Bioinformatics in Animal Health and Management held at Alagappa University, on 25 and 26th March 2009.
49. JothiBasu, M. Participated in National Seminar on Current Trends and Future Prospects of Nano Marine Sciences at Alagappa University, on 23 and 24th March 2009.
50. JothiBasu, M. Participated in National Seminar on Recent Trends in Molecular Modeling and Drug Design at Alagappa University, Karaikudi on 18-03-2009 and 19- 03-2009.
51. JothiBasu, M., Yogananth. N., Chanthuru, A. and Baburaj, S. 2009. Anti-inflammatory activity and Tissue culture studies on *Antrographispaniculata* (Burm. F.) Wallich Ex. Nees., a medicinal plant. In: International Colloquium on Emerging Biotechnologies in

Agriculture, Animal health and Productivity (ICEB'09) held at Alagappa University, Karaikudi. Feb. 22-26, 2009.

52. JothiBasu, M., and Yogananth. N. 2009. Micropropagation and induction of hairy root cultures of *Plumbago rosea* L. In: National Conference on Modern Trends in Plant in vitro Biology held at Bharathidasan University, Thiruchirappalli. Jan. 5 & 6, 2009.
53. JothiBasu, M. and Santhaguru, K. 2008. Impact of fluorescent *Pseudomonas* and *Glomus fasciculatum* on *Vignaradiata* (L.) Wilczek challenged with phytopathogens. In: National Symposium on new concepts in biotechnology (Origene-2008) held at Kalasalingam University, Anand Nagar, Krishnankoil. Feb. 11-12, 2008.
54. JothiBasu, M. and Santhaguru, K. 2006. Induction of pathogenesis related proteins in fluorescent *Pseudomonas* treated *Vignaradiata* in response to infection by *Fusarium oxysporum* and *Rhizoctonia solani*. In: DBT sponsored National Symposium on Frontier Areas in Plant Biotechnology held at Lady Doak College, Madurai. Jan. 20-21, 2006.
55. JothiBasu, M. and Santhaguru, K. 2005. Impact of dual inoculation of fluorescent *Pseudomonas* VuPf1 and *Glomus fasciculatum* on *Vignaradiata* (L.) Wilczek. In: UGC sponsored National seminar on Present Scenario in Plant Science Research, held at Annamalai University, Annamalai Nagar. Feb. 19-20, 2005.
56. Chandrasekaran, S., Bharathi, R., JothiBasu, M., and Kamalakannan, B. 2005. Allelopathic effect of *Prosopis juliflora* leaf extract on the growth and development of some medicinal plants and microbes. In: DBT and CSIR sponsored National symposium on microbial and Plant Biotechnology, held at Loyola College, Chennai. Feb. 17-19, 2005.
57. International workshop on Bioinformatics sponsored by AICTE, India conducted by Karpagam Arts and Science College, Coimbatore. March 18-20, 2004.
58. DST sponsored contact program and workshop on Protoplast fusion technology for strain improvement in filamentous fungi held at Centre for Advanced Studies in Botany, University of Madras, Chennai. December 16-21, 2002.
59. JothiBasu, M. and Santhaguru, K. 2001. Evaluation of plant growth promoting fluorescent *pseudomonads* and its antagonistic potential. In: International Conference on New Horizons in Biotechnology-2001 held at Regional Research Laboratory, CSIR, Trivandrum. April 18-21, 2001.

Other Training Programmes: 04

1. Participated in DBT sponsored Short-Term Training Course on Application of Biotechnological Tools in Crop Improvement conducted by Department of Plant Biology and Biotechnology, Loyola College, Chennai on 10th July, 2013 – 30th July, 2013.
2. Participated in UGC sponsored Refresher Course in Life Science (Multidiscipline) Conducted by UGC-Academic Staff College, Bharathiar University, Coimbatore on 11th September, 2012 – 1st October, 2012.
3. Participated in UGC sponsored Orientation Programme Conducted by UGC- Academic Staff College, Madurai Kamaraj University, Madurai on 8th July, 2010 - 4th August, 2010.
4. Participated in Two-Day Faculty Orientation Programme in Communication Skills, Read and Write Efficiently, Recent Trends in Education, Effective Teaching and Accreditation of Institutions, Organized by J. J. College of Arts and Science, Pudukkottai on 9th & 10th June, 2008.

DDE Course Materials:

1. 34631- Microbiology and Plant Pathology, M.Sc. Botany-2019
2. 35033- Environmental Biology, M.Sc. Zoology- 2019.
3. 34634- Lab III: Microbiology & Plant Pathology, Ecology, Biodiversity Conservation, Economic Botany, Algal Technology and Mushroom Technology- 2019.

Distinctive Achievements/Awards:

1. Guardian of Tamil Folk and Folk Artists, Loyola Student Support Services, Loyola College, Chennai and Alternate Media Centre, Chennai.

Membership in:

Professional Bodies:

1. Life Member: Indian Science Congress Association

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

1. Member, Board of Studies for Botany courses, Alagappa University.
2. Special Invitee, Board of Studies for Zoology, DDE, Alagappa University.
3. Member, Board of Studies, B. Sc., Botany, Alagappa University affiliated Colleges.
4. Member, Board of Studies, B. Sc., Botany & Ancillary Botany Courses, V.V.V. College for Women (Autonomous), Virudhunagar.
5. Chairman, Board of Valuation, M. Sc., and M. Phil. Botany, Directorate of Distance Education, Alagappa University.
6. Chairman, Question Setting Board, M. Sc., Botany, Directorate of Distance Education, Alagappa University.
7. Member, Board of Valuation, M. Phil. Botany, Thiagarajar College (Autonomous), Madurai-9.
8. Member, Board of Valuation, M. Sc., Microbiology, Alagappa University affiliated Colleges.
9. University Representative, Distance Education Examinations, Alagappa University.
10. University Observer, B. Ed., and M. Ed., Examinations, Tamil Nadu Teacher Education University.
11. Member, Inspection Squad, Examinations of Alagappa University affiliated Colleges.
12. Member, Question Setting Board, Microbiology and Biochemistry Alagappa University Collaborative programme.
13. Member, Board of Valuation, Microbiology and Biochemistry Alagappa University Collaborative programme.

Others:

1. Observer, All India Pre- Medical and Dental Entrance Examinations, CBSE, New Delhi.
2. Observer, Joint Entrance Examination, CBSE, New Delhi.

Resource persons in various capacities:

Number of Invited / Special Lectures delivered: 15

1. Participated as Resource Person and Judge in the 4th International Conference on Recent Trends in MICROBIOLOGY (RTM-2023), Alagappa University, Karaikudi, held on January 05th & 06th, 2023.
2. Delivered an Invited Lecture on Mycorrhiza: Symbiotic Mediators of Plants and Ecosystem organized by Department of Botany, V.V. Vanniaperumal College for Women, Virudhunagar under DBT- Star College Scheme, DBT, Govt. of India on 1st February, 2021.
3. Delivered Guest Lecture on National Level Webinar on Plant Based Biopolymers for Human Utilization organized by PG and Research Department of Botany, Adhiyaman Arts and Science College for Women, Uthangarai on 17th June, 2020.
4. Delivered Special Lecture on Role of Honey Bee in Crop Improvement in the Three Days Workshop on Creation of Scientific Awareness Programme catalyzed and supported by Tamilnadu State Council for Science and Technology, Govt. of Tamilnadu and organized by Research Department of Botany, PasumponThiruMuthuramalingaThevar Memorial College, Kamuthi on 25th January, 2018.
5. Delivered Invited Lecture on MICROBIAL BIORESOURCE MANAGEMENT at XXVII- UGC-NRCBS Winter School on Bioresources Management held at Department of Plant Sciences, School of Biological Sciences, Madurai Kamaraj University, Madurai-625 024 on 16th October, 2012.
6. Delivered Invited Lecture on BIODIVERSITY and GLOBAL WARMING at Tamilnadu State Council for Science and Technology sponsored Young Students Scientist Programme held at Thiagarajar College, Madurai-625 009 on 26th May, 2012.
7. Delivered Special Lecture on SOIL MICROBES at Valedictory function of Alagappa Botanical Club of Alagappa Govt. Arts College, Karaikudi on 2nd April, 2012.
8. Participated as Resource Person and delivered Invited Lecture on SOIL MICROORGANISMS at XVI- UGC National Resource Centre for Biological Sciences Winter School on Recent Trends in Applied Ecology, Department of Plant Sciences, School of Biological Sciences, Madurai Kamaraj University, Madurai on 27th August, 2011.
9. Delivered Special Lecture on GENE SEQUENCING at Vysya College, Salem on 9th October, 2010.

10. Delivered Special Lecture on BIODIVERSITY CONSERVATION at Alagappa Govt. Arts College, Karaikudi on 13th August, 2010.
11. Participated as a Resource Person in A series of Community Extension Programmes on Career Guidance and Counseling for Rural School Students conducted by Department of Lifelong Learning / Education, Alagappa University on 2nd March 2010 to 8th March 2010.
12. Delivered a guest lecture on “Marketing of Biofertilizers” in Tamilnadu State Council for Science and Technology (TNSCST) sponsored Workshop on Sustainable Income Generation Through Training on Production and Application of Biofertilizers and Vermicompost for Rural Women, held at Thiagarajar College (Autonomous), Madurai on 9th October, 2009.
13. Participated as a Subject Expert in a Selection Committee for recruiting a Lecturer in Botany at PasumponThiruMuthuramalingaThevar Memorial College, Kamuthi on 3rd September, 2009.
14. Participated in UGC sponsored Refresher Course in Life Science (Multidiscipline) Conducted by UGC-Academic Staff College, Bharathiar University, Coimbatore on 11th September, 2012 – 1st October, 2012.
15. Participated in UGC sponsored Orientation Programme Conducted by UGC- Academic Staff College, Madurai Kamaraj University, Madurai on 8th July, 2010 - 4th August, 2010.

Recent Publications:

1. Vignesh Kumar, B., Muthumari, B., Kavitha, M., John Praveen Kumar, J., Thavamurugan, S., Arun, A., and Jothi Basu, M. 2022. Studies on Optimization of Sustainable Lactic Acid Production by *Bacillus amyloliquefaciens* from Sugarcane Molasses through Microbial Fermentation. *Sustainability*: 14, 7400. ISSN 2071-1050. (Impact Factor: 3.251)
2. Kottaimuthu, R., and **Jothi Basu M.**, 2021. A new replacement name for *Eriobotrya integrifolia* Aver. (Rosaceae). *Kew Bulletin*. ISSN 1874-933X. (Impact Factor: 0.984)
3. Kottaimuthu, R., and **Jothi Basu M.**, 2021. *Meinilla madagascariensis*, a replacement name for *Medinilla albiflora* H. Perrier (melastomataceae) and its lectotypification. *Phytotaxa* **518 (1)**: 077-078. ISSN 1179-3163. (Impact Factor: 1.007)
4. Arumugam N., Boobalan T., Pugazhendhi A., Arun, A., Jothi Basu. M , and Suganya Devi, T., and Kavitha, T. 2021. Particle size influence on the composition of sugars in

- corn cob hemicelluloses hydrolysate for xylose fermentation by *Meyerozyma caribbica*. *Bioresource Technology* 340- 125677. ISSN 0960-8524 (Impact Factor: 9.642)
5. Kottaimuthu, R., Vimala M., Rajendran K., and Jothi Basu M., 2021. *Senecio sennikovii*, a new replacement name for Mexican endemic *Senecio bracteatus* Klatt (Asteraceae: Senecioneae). *Phytotaxa* 511 (1): 077-078. ISSN 1179-3163. (Impact Factor: 1.007)
 6. Saravanan. S, Kamala Dhasan, N, Sudha A., Chandrasekaran S., Boobalan T., Sathees Murugan R., Arun A., and Jothi Basu. M. 2021. Studies on the influence of natural resource utilization by humans on foraging behavior of honey bees at rural ecosystems. *Environmental Science and Pollution Research* 28(26):33942-33956 ISSN 1614-7499 (Impact Factor: 3.056)
 7. Kottaimuthu, R., Murugan P. John Praveen Kumar J., and Jothi Basu M., 2021. *Impatiens ramasubbuana*, a new name for *Impatiens palniensis* Ramasubbu (Balsaminaceae). *Phytotaxa* 500 (1): 052-054. ISSN 1179-3163. (Impact Factor: 1.007)
 8. Saravanan. S, Kamala Dhasan, N, Arumugam N., Boobalan T., Maruthupandian, J., Jothi Basu. M , Arun A. and Muthuchelian, K. 2021. In situ conservation of endangered tree species (*Elaeocarpus venustus* Bedd.) habituated in Agasthiyamalai Biosphere Reserve, Southern Western Ghats, India. *Environmental Science and Pollution Research* 28(26):33958-33966 ISSN 1614-7499 (Impact Factor: 3.056)
 9. Nagalakshmi M., Jeganathan C., Anandha Raj J., Nithya A. , Jothi Basu M. and Karuppuchamy S. 2021. Biosynthesized TiO₂ nanoparticles an efficient biogenic material for photocatalytic and antibacterial applications. *Energy & Environment* 0(0): 1–22. ISSN 2048-4070 (Online) (Impact Factor: 1.775)
 10. Kottaimuthu, R., Sathiyadash, K., Karthikeyan, V., & **Jothi Basu M.** .2020. *Tropidia thwaitesii* Hook.f.(Orchidaceae: Tropidieae): A Little Known Orchid from Eastern Ghats, India. *Indian Journal of Forestry* **43 (2)**: 133-135. ISSN **0971-9431**.
 11. Saravanan. S, Kamala Dhasan, N, Maruthupandian, J., Jothi Basu. M , and Chandrasekaran, S. 2020. Beehive removal practices in urban India: Bane of bee's life? *Materials Today: Proceedings* ISSN 2214-7853 (Impact Factor: 0.97)
 12. Kottaimuthu, R., Jothi Basu M., Sathiyadash, K., & Karthikeyan, V., N.2020. *Cissus lombardiana* a new name for *Cissus ulmifolia* (Vitaceae). *Phytotaxa* 477 (1): 097-098. ISSN 1179-3163. (Impact Factor: 1.007)
 13. Kottaimuthu, R., Selvakumar, S., Kalidass, C., and Jothi Basu, M. 2020. *Lygodium flexuosum* (L.) Sw. (Lygodiaceae): A new record for Eastern Ghats of Tamil Nadu, India.

Plant Science Research 42 (1&2): 68–70. ISSN 0972-8546

14. Kottaimuthu, R., Kalidass, C., Jothi Basu, M. and Panda, P.C. 2020. Taxonomic reassessment of genus *Memecylon* L. (Melastomataceae) in Eastern Ghats, India. *Plant Science Research* 42 (1&2): 21–25. ISSN 0972-8546
15. Kottaimuthu, R., Kamala Dhasan, N. & Jothi Basu M., 2020. Two new names for extant *Pteris* species (Pteridaceae). *Phytotaxa* 453 (2): 154-156. ISSN 1179-3163. (Impact Factor: 1.168)
16. Kottaimuthu, R., Jothi Basu M., 2020. *Carex talbotii* (Cyperaceae), a replacement name for Berggren's Sedge. *Phytotaxa* 447 (2): 146-148. ISSN 1179-3163. (Impact Factor: 1.168)
17. Kottaimuthu, R., & Basu, M.J. 2020. *Pedicularis hongii* Kottaim., a new name for *P. multicaulis* W.B. Yu., H. Wang & D.Z. Li. (Orobanchaceae). *Ann. Bot. Fennici* 57: 209-210. ISSN 0003-3847 (Print), 1797-2442 (Online) (Impact Factor: 0.731)
18. Kottaimuthu, R., Sukanyadevi, M. & Basu, M.J. 2020. Validation of the names *Acmella ghoshinis*, *Acmella tetralobata* and *Acmella vazhachalensis*. *NeBio* 11(1): 18-19. ISSN 2278-2281 (Online), 0976-3597 (Print)
19. Kottaimuthu, R., Jothi Basu M., Suganyadevi, M., & John Praveen Kumar, J. 2020. A new name for *Emilia flaccida* C. Jeffrey (Asteraceae). *Phytotaxa* 436 (1): 92 ISSN 1179-3163. (Impact Factor: 1.168)
20. Arumugam, N., Boobalan, T., Saravanan, S., Jothi Basu M., Arun. A., Suganya Devi, T., Kavitha, T. 2020. *In silico* and *in vitro* comparison of nicotinamide adenine dinucleotide phosphate dependent xylose reductase Rossmann fold in Debaryomycetaceae yeast family. *Biocatalysis and Agricultural Biotechnology* 24: 101508. ISSN 1878-8181.
21. Dinesh, G.H., Nguyen, D.D., Ravindran, B., Chang, S.W., Vo, D.N., Bach, Q.V., Tran, H.N., Jothi Basu M., Mohanrasu, K., Sathees Murugan, R., Angelin Swetha, T., Sivaprakash, G., Selvaraj, A., and Arun. A. 2020. Simultaneous biohydrogen (H₂) and bioplastic (poly-β-hydroxybutyrate-PHB) productions under dark, photo and subsequent dark and photo fermentation utilizing various wastes. *Int. J. Hydrogen Energy* 45: 5840–5853. ISSN 0360-3199. (Impact Factor: 4.084)
22. Sudhakar, M., Osei, O., Boobalan, T., Angelin Swetha, T., Satheesh Murugan, R., Saravanan, S., Jothi Basu M., and Arun. A. 2019. Thermal –chemical and biodegradation behavior of alginic acid treated flax fibres/ poly (hydroxybutyrate-co-valerate) PHBV green composites in compost medium. *Biocatalysis and Agricultural Biotechnology* 23: 101394. ISSN 1878-8181.

23. Dinesh, G.H., SatheesMurugan, R., Mohanrasu, K., Arumugam, N., JothiBasu M., and Arun. A. 2019. Anaerobic Process for Biohydrogen Production using Keratin Degraded Effluent. *J. Pure Appl. Microbiol.* 13 (2): 1135–1143. ISSN 0973-7510.
24. Sivaprakash, G., Mohanrasu, K., Ananthi, V., JothiBasu M., Nguyen, D.D., Ravindran, B., Chang, S.W., Nguyen-Tri, P., Tran, N.H., Sudhakar, M., Gurunathan, K., Arokiyaraj, S., and Arun. A. 2019. Biodiesel production from *Ulva linza*, *Ulva tubulosa*, *Ulva fasciata*, *Ulva rigida*, *Ulva reticulate* by using Mn_2ZnO_4 heterogenousnanocatalysts. *Fuel* 255: 115744. ISSN 0016-2361. (Impact Factor: 4.908)
25. Arumugam. N, Boobalan. T, Kavitha.T, Arun. A and JothiBasu M., 2019. *Prosopisjuliflora* (Sw.) DC. (SeemaiKaruvellam) in Tamil Nadu, India: Boon or Ban?. *Eveyman's Science* LII (5): 304–310. ISSN 0531-495X.
26. Boobalan. T, Samsudeen, N. James Obeth, E. S. Saravanan, S, JothiBasu M., Mohanrasu, K. Ravindran B., Dinh D.N. Soon W.C., Nanthi, B. Yiu, F.T. Leonel, E.A. and Arun. A. 2019. Comparative study on *Cronobactersakazakii* and *Pseudomonas otitidis* isolated from septic tank wastewater in microbial fuel cell for bioelectricity generation. *Fuel* 248: 47–55. ISSN 0016-2361. (Impact Factor: 4.908)
27. Kottaimuthu, R., JothiBasu, M. and Karmegam, N. 2019. Some new combinations and new names for Flora of India. *Int. J. Curr. Res. In Biosciences and Plant Biology.* 6 (10): 33–46. ISSN 2349-8080.
28. Kottaimuthu, R., Vasudevan, N., Kalidass, C., and JothiBasu, M. 2019. Does *Mimosa hamate* Willd. (Mimosoideae: Fabaceae) occur in Tamil Nadu?. *Plant Science Research* 41 (1&2): 60–62. ISSN 0972-8546
29. Sivaprakash G, Mohan Rasu. K, Dinesh G.H., Ananthi V., Boobalan. T, JothiBasu M., Ravindran B., Soon W.C., Maridhas V.A., Naif A.A., Arokiyaraj S., and Arun. A. 2019. Environmental friendly synthesis of TiO_2 -ZnO nanocomposite catalyst and silver nanomaterials for the enhanced production of biodiesel from *Ulva lactuca* seaweed and potential antimicrobial properties against the microbial pathogens. *Journal of Photochemistry &Photobiology, B: Biology* 193: 118–130. ISSN 1011-1334. (Impact Factor: 3.165)
30. SatheesMurugan, R., Dinesh, G.H., AngelinSwetha, T.R., Boobalan. T, JothiBasu. M ,Manimaran. P., Selvakumar, G., and Arun. A. 2018. *Acinetobacter junii* AH4-A

Potential Strain for Bio-hydrogen Production from Dairy Industry Anaerobic Sludge. *J. Pure Appl. Microbiol.* 12 (4): 1761–1769. ISSN 2581-690X

31. Boobalan. T, Mohan Rasu. K, Arumugam. N, Saravanan. S, JothiBasu. M ,Jeyakanthan. J. and Arun. A. 2018. Studies on the Diversity of Macrofungus in Kodaikanal Region of Western Ghats Tamil Nadu, India. *Biodiversitas*19 (6): 2283–2293. ISSN 1412-033X
32. Saravanan. S, Kamala Dhasan, N, JothiBasu. M , and Chandrasekaran, S. 2018. Studies on the foraging shift of bees and their negative consequences at urban ecosystems of Tamil Nadu, South India. *Int. J. Scientific Research and Reviews* 7 (1) Supp., : 146–156. ISSN 2279-0543
33. Arumugam. N, Saravanan. S, Kavitha. T, Boobalan. T, JothiBasu. M ,Arun. A. 2017. Campus-wide floristic diversity of medicinal plants in Indian Institute Technology-Madras (IIT-M), Chennai. *American J. Plant Sciences* 8: 2995–3012. ISSN 2158-2742
34. Arumugam. N, Boobalan. T, Rajarajeswari. P, Kavitha. T, JothiBasu. M ,Arun. A. 2017. Biogenesis of silver nanoparticles using selected plant leaf extract; characterization and comparative analysis of their antimicrobial activity. *Nanomed. J.* 4 (4): 208–217. ISSN 2322-3049
35. Sivaprakash, G, Tharmaraj, P, M. JothiBasu , and A. Arun. 2017. Antimicrobial Analysis of Schiff Base Ligands Pyrazole and Diketone Metal Complex Against Pathogenic Organisms. *International J. Advanced Research* 5 (2): 2656–2663. ISSN 2320-5407
36. M. Nagalakshmi, C. Karthikeyan, N. Anusuya, C. Bruntha, M. JothiBasu and S. Karuppuchamy. 2017. Synthesis of TiO₂ nanofiber for photocatalytic and antibacterial applications. *Journal of Material Science: Materials in Electronics* 55: 172–184. ISSN 0957-4522 (Print) 1573-482X (Online)(Impact Factor: 2.019)
37. R. Manikandan, M. Beulaja, R. Thiagarajan, S. Palanisamy, G. Goutham,A. Koodalingam, N.M. Prabhu, E. Kannapiran, M. JothiBasu, C. Arulvasu, M. Arumugam. 2017. Biosynthesis of silver nanoparticles using aqueous extract of *Phyllanthusacidus* L. fruits and characterization of its anti-inflammatory effect against H₂O₂ exposed rat peritoneal macrophages *Process Biochemistry* 55: 172–184. ISSN 1359-5113 (Impact Factor: 2.529)

38. Arun A, M. JothiBasu , R. Vigneshwari, G.H. Dinesh, K. Mohan Rasu, G. Siva Prakash, and R. SatheeshMurugan. 2015. Biological corrosion inhibition of steel alloy by paninano fiber. *African Journal of Microbial Research*. 9 (12): 886–891. ISSN 1996-0808
39. ManikandanRamar, BeulajaManikandan, Thiagarajan Raman, KoodalingamArunagirinathan, Narayanan MarimuthuPrabhu , MuthuramalingamJothiBasu , MuthulakshmiPerumal ,Subramanian Palanisamy, ArumugamMunusamy , 2014. Biosynthesis of silver nanoparticles using ethanolic petals extract of *Rosa indica* and characterization of its antibacterial, anticancer and anti-inflammatory activities. *SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy* 138: 120–129. ISSN 1386-1425 (Impact Factor: 2.653)
40. JothiBasu, M., and Yogananth, N. 2011. *In vitro* anti-inflammatory activity and tissue culture studies on *Andrographispaniculata* (Burm. F.) Wallich Ex. Nees.: a medicinal plant. *Journal of Pharmacy Research*, 4(5):1368-1369. ISSN 0974-6943
41. Deepadevi, M. Basu, M.J., and Santhaguru, K. 2010. Response of *Sorghum bicolor* (L.) Monech to dual inoculation with *Glomus fasciculatum* and *Herbaspirillumseropedicae*. *General and Applied Plant Physiology* 36:176-182. ISSN 1312-8183
42. JothiBasu, M., Ramanathan, R., Yogananth, N and Baburaj, S. 2009. Micropropagation of *Crataevareligiosa*Hook. f. &Thoms. *Current Trends in Biotechnology and Pharmacy* 3:287-290. ISSN 0973-8916
43. Yogananth, N. andJothiBasu, M. 2009. TLC method for the determination of plumbagin in hairy root culture of *Plumbagorosea* L. *Global Journal of Biotechnology & Biochemistry* 4: 66-69. ISSN 1995-9001
44. JothiBasu, M. and Santhaguru, K. 2009. Impact of *Glomus fasciculatum* and Fluorescent *Pseudomonas* on growth performance of *Vignaradiata* (L.) Wilczek challenged with phytopathogens. *Journal of Plant Protection Research*. 49: 190-194. ISSN: 1427-4345 (Impact Factor: 0.031)
45. JothiBasu, M. ,Yogananth, N. and Baburaj. 2009. *In vitro* propagation of *Hybanthusenneaspermus*Linn. f. Muell. from leaf explants. *Advanced Biotech VIII*: 29-31. ISSN : 0973-0109

46. JothiBasu, M. ,Kalidoss, A, Kayathri, Shanmugam and Baburaj, S. 2008. *In vitro* regeneration from leaf callus culture of *Scopariadulcis*. *Plant Cell Biotechnology and Molecular Biology* 9 (3&4): 139-142. ISSN : 0972-2025
47. Rajendran, K., Baburaj, S &JothiBasu, M. 2008. Natural and Cultivated Dye Yielding Plants and Their Utilization by Villagers in Southern Districts of Tamilnadu. *Journal of Economic and Taxonomic Botany*.32(Suppl.): 141-145. ISSN: 2050-9768
48. Rajendran, K., Balaji, P. &JothiBasu, M. 2008. Medicinal Plants and Their Utilization by Villagers in Southern Districts of Tamil Nadu. *Indian Journal of Traditional Knowledge*7: 417-420. ISSN: 0972-5938 (Impact Factor: 0.232)
49. Rajendran, K., and JothiBasu, M. 2006. Morphological Variation, Histology, Histochemistry and Nutrient Contents of *Frankia* Root Nodules in *Casuarina equisetifolia*. *Indian Journal of Experimental Biology*44: 924-928. ISSN: 0019-5189 (Impact Factor: 0.702)
50. KasthuriRengamani, S., JothiBasu, M. and Rajendran, K. 2006. Effect of Bioinoculants on Quality Seedling Production of Drumsticks (*Moringaoleifera* L.). *Journal of Non-Timber Forest Products*.13: 41-46. ISSN: 0971-9415.

Chapters in Books:

1. Asha, P. Bhavadharani, S. Kavipriya, M.R. Subashini, J., John Praveen Kumar, J. Saravanan, S. Kottaimuthu, R. Jothi Basu, M., Chandrasekaran, S and Kamal Dhasan, N. 2021. Enumeration of invasive alien species of terrestrial vegetation of Alagappa University campus at Karaikudi, Sivagangai district, Tamil Nadu. In: Dharmar, K., and Mary Sujin, R (Eds.), Biodiversity Conservation and Sustainable Development, Research Department of Botany, PTMTM College, Kamuthi. pp. 94-109. ISBN: 9789354374913.
2. Kottaimuthu, R. Eswaran, S, Boomibalagan, P. & Jothi Basu, M. 2021. Some Interesting and Little-known Legumes from Easter Ghats, Indai. In: Dharmar, K., and Mary Sujin, R (Eds.), Biodiversity Conservation and Sustainable Development, Research Department of Botany, PTMTM College, Kamuthi. pp. 110-118. ISBN: 9789354374913.

3. Latha, P. John Praveen Kumar, J. Kottaimuthu, R. & Jothi Basu, M. 2021. *Pommereulla cornucopiae* L.f. (Poaceae): A new record to Sivagangai District, Tamil Nadu, India. In: Dharmar, K., and Mary Sujin, R (Eds.), Biodiversity Conservation and Sustainable Development, Research Department of Botany, PTMTM College, Kamuthi. pp. 119-121. ISBN: 9789354374913.

4. Rathika, S. Logeshwari, M. Kottaimuthu, R. & Jothi Basu, M. 2021. Notes on the distribution of *Meineckia parvifolia* (Wight) Webster (Phyllanthoideae: Euphorbiaceae) in Tamil Nadu, India. In: Dharmar, K., and Mary Sujin, R (Eds.), Biodiversity Conservation and Sustainable Development, Research Department of Botany, PTMTM College, Kamuthi. pp. 122-126. ISBN: 9789354374913.