

CURRICULUM VITAE

Dr. M. RAMACHANDRAN., M.Sc., B.Ed., Ph.D.

Assistant Professor

PG Department of Botany

Sri Vidya Mandir Arts & Science College (Autonomous)

Katteri, Uthangarai, Krishnagiri Dt – 636 902

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	All	Since 2020
Citations	228	227
h-index	7	7
i10-index	5	5

Research Area of Specialization

Crop Stress Physiology and Molecular Biology, Seaweed Biology

List of Publications

Total Citations: **228**; Total Impact Factor of Published Papers: **25.48**; Average Impact Factor of Published Paper: **2.12**; H index: **7**.

I've been an plant physiologist for the past ten years. My research focused on drought stress tolerance in rice for sustainable agriculture. I have extensive expérience in physiological analysis, enzymatic antioxidant activités, biochemical analysis, crop stress physiological techniques and stress responsive gene expression analysis.

Fellowship

- URF- University Research Fellowship (2017-2019), Periyar University, Salem- 636 011, Tamil Nadu, India (PU/AD-3/URF/2016)
- URF- University Research Fellowship (Extension based on Research Profile) (2019-2020), Periyar University, Salem- 636 011, Tamil Nadu, India (PU/AD-3/URF/2016)

Project / Fund Received

Title	Agency	Amount
Waste to wealth: Preparation of biofertilizer from marine waste and its plant growth analysis of black gram (<i>Vigna mungo</i> (L.) Hepper) under drought stress condition	Tamil Nadu Council for Science and Technology (Student Project Scheme AS - 663)	Rs. 7, 500

Educational Qualification

Education	Academic	Duration
Ph.D. (Botany)	Periyar University, Salem	2015- 2023
M.Sc. (Botany)	Periyar University, Salem	2013-2015
B.Ed. (Biological Science)	Institute of Advanced Study in Education (IASE) Saidapet, Chennai -15	2012-2013
B.Sc. Botany	Arignar Anna Govt Arts and Science College, Namakkal - 637 002	2009-2012
HSC	Govt. Boys Hr. Sec. School, Pethanaickenpalayam 636 109	2008
SSLC	Govt. High School, Kalpaganur 636 109	2006

Working Experience

- Mangrove plant survey Pattukottai Manora, Mimesal, Manalmelkudi
- Mangrove seed collection Adhirampattinam, Muthupettai
- Mangrove plant/Seagrass collection in Chilikka Lake of Bay of Bangal at Odisha (2018)
- Seaweed and Seagrass collection in Mandabam, Rameshwaram, Thondi

Academic Experience

Designation	Institute	Duration
Assistant Professor	PG Department of Botany Sri Vidya Mandir Arts and Science, College, Katteri, Uthangarai, Krishnagiri	24 th July to Till date
Assistant Professor	Department of Botany, Muthayammal Memorial College of Arts and Science, Rasipuram, Namakkal Dt - 637 408	30 th January 2023 to 22 nd July 2023

Research Experience

- Ph.D. Title:** Improvement of drought stress tolerance of rice (*Oryza sativa* L.) by exogenous ABA mediation
- M.Sc. Title:** ABA mediated changes in on growth and biochemical characteristics of black gram (*Vigna mungo* (L.) Hepper) under induced drought

Techniques Known

- ❖ Seaweed/ sea grass Collection and identification
- ❖ Seaweed Liquid Fertilizer Preparation
- ❖ Plant identification techniques
- ❖ DNA and RNA isolation techniques
- ❖ FT-IR Spectroscopy analysis
- ❖ SDS-PAGE for Protein separation
- ❖ Native PAGE
- ❖ Extraction and estimation techniques -Physiological parameters
- ❖ Biochemical analysis
- ❖ Enzymatic antioxidants activities
- ❖ Chromosomal aberration - root tip
- ❖ Histochemical detection
- ❖ Crop Stress physiology techniques
- ❖ Plant stress physiology (Drought stress crop improvement)
- ❖ PCR techniques & SCoT Marker Analysis
- ❖ Mushroom culture
- ❖ Stomatal analysis
- ❖ Gene expression analysis
- ❖ Fluorescence microscope
- ❖ Statistical analysis (SPSS)

Publications

1. Sasikala J, Subramanian G & **Ramachandran M** (2024). Qualification and quantification of cyanobacterial biochromes from the Gulf of Mannar in Tamil Nadu, India, *Plant Science Today*, 11 (4), 1717-1722.(NAAS rating - 5.44, IF - 0.9, Scopus, Web of Science).
2. Vivekanandhan Perumal., Lucy Alford, Sarayut Pittarate., Dilipan Elangovan, **Ramachandran Marimuthu**, and Patcharin Krutmuang (2023). Biocontrol effect of entomopathogenic fungi *Metarhizium anisopliae* ethyl acetate-derived chemical molecules: an eco-friendly anti-malarial drug and insecticide, *Archives of Insect Biochemistry & Physiology* (Wiley Online Library), 114 (2), 1-19. (IF – 2.54, Web of Science).
3. **M. Ramachandran.**, G. Selvakumar., S. Ramya., and D. Arulbalachandran. Physio-biochemical characterizations in the drought induced rice (*Oryza sativa* L.): pathway to understand the drought tolerance mechanisms, *Plant Physiology Reports (Springer)*, 2023 (2), 1-17. (IF – 1.7, Web of Science, Scopus).
4. E. Dilipan, P. Sivaperumal, S. Kamala, **M. Ramachandran** and P. Vivekanandhan (2023). Green synthesis of Silver Nanoparticles using seagrass *Cymodocea serrulata* (R.Br.) Asch. & Magnus, Characterization and evaluation of anticancer, antioxidant and antiglycemic Index, *Biotechnology and Applied Biochemistry*, **Wiley Online Library**, (IF- 3.0, Web of Science, Scopus)
5. Dilipan E., D. Arulbalachandran., J. Rajkumar and **M. Ramachandran**, (2022). Molecular phylogeny of *Ruppia maritima* L. from Chilika Lake, Odhisa using nuclear and plastid genes. *Journal of Environmental Biology*, 43 (3); 412-419. (NAAS rating - 6.56, IF- 0.71, Scopus, Web of Science).

6. Perumal, Vivekanandhan, Swathy Kannan, Lucy Alford, Sarayut Pittarate, Ruchika Geedi, Dilipan Elangovan, **Ramachandran Marimuthu**, and Patcharin Krutmuang. "First report on the enzymatic and immune response of *Metarhizium majus* bag formulated conidia against *Spodoptera frugiperda*: An ecofriendly microbial insecticide." *Frontiers in Microbiology* 14 (2023). (IF - 6.06, **Web of Science, Scopus**).
7. S. Ramya., D. Arulbalachandran and **M. Ramachandran**. (2022) Impact of drought stress on morphological and yield components in maize (*Zea mays* L.), *Research Journal of Biotechnology*, 17 (10), 77-85. (IF - 0.454, **Scopus, Web of Science**).
8. Ramya, S., Arulbalachandran, D., and **Ramachandran, M.** (2022). Influence of exogenous abscisic acid on morpho-physiological and yield of maize (*Zea mays* L.) under drought stress. *Plant Science Today*, 9(2), 288-300. (NAAS rating - 5.44, IF – 0.9, **Scopus, Web of Science**).
9. **Ramachandran, M.**, D. Arulbalachandran and S. Ramya (2022) Exogenous foliar application of abscisic acid on Polyethylene glycol induced drought by improving the morphological and biochemical characters of the four rice (*Oryza sativa* L.) varieties, *Plant Science Today*, 9(2), 272-280. (NAAS rating - 5.44, IF - 0.9, **Scopus, Web of Science**).
10. **Ramachandran, M.**, Arulbalachandran, D., Dilipan, E., and Ramya, S. (2021). Comparative analysis of abscisic acid recovery on two varieties of rice (*Oryza sativa* L.) under drought condition. *Biocatalysis and Agricultural Biotechnology (Elsevier)*, 33, 102006. (IF-4.259, **Scopus, Web of Science**).
11. J. Rajkumar., A. Panneerselvam., N. Thajuddin., E. Dilipan, and **M. Ramachandran** (2021). Bioethanol Production From Seagrass Waste, Through Fermentation Process Using Cellulase Enzyme Isolated From Marine Actinobacteria" *Vegetos (Springer)* 34, 581-591. (NAAS 5.27, IF-0.46, **Scopus, Web of Science**).
12. E. Dilipan, **Ramachandran M** and Arulbalachandran D (2020). Population genetics and gene flow of the seagrass, *Syringodium isoetifolium* based on Start codon targeted (SCoT) marker from Palk Bay and Chilika Lake, India. *Meta Gene (Elsevier)* 26: 2020/100774 (IF-0.8, **Scopus, Web of Science**)
13. P. Vivekanandhan, Swathy K, Kalaimurugan D, **Ramachandran M**, Yuvaraj A, Naresh Kumar A, Thendral Manikandan A, Poovarasan N, Shivakumar M.S. and Kweka E.J. (2020). Larvicidal toxicity of *Metarhizium anisopliae* metabolites against three mosquito species and non-targeting organisms. *Plos One*, 15 (5), e0232172. (IF-3.7, NAAS- 8.78, **Web of Science**).
14. **M. Ramachandran** and D. Arulbalachandran (2018). Exogenous abscisic acid mediated morphological characteristics, Photosynthetic pigments and antioxidant metabolism under drought stress in rice (*Oryza sativa* L.)” *Madras Agricultural Journal*, 105 (7-9) (2): 385-389. DOI: 10.29321/MAJ.2018.000167. (NAAS- 4.52).
15. **M. Ramachandran** and D. Arulbalachandran (2016). Morphological characteristics, biochemical analysis and enzymatic antioxidant activity two varieties of Rice (*Oryza sativa* L.) under drought. *Int. J. Cur. Tr. Res*, 4 (2), 13-22.
16. D. Arulbalachandran, Yasmin K, Jothimani K, **Ramachandran M** and Pradeepkumar R (2016). Role of ABA on antioxidant mechanism under drought crops. *International Journal for Species*, 17(54), 48-55. ISSN 2319-5746.

Book chapter

1. Yasmin., D. Arulbalachandran, **M. Ramachandran**, K. K. Vijayakumar, S. Alagendran. Ethnopharmacological Survey of Eastern Ghats, Published by **Walnut Publication** ETHNOBOTANY Present Scenario & Future Prospects, (Paperback ISBN: 978-93-5911-499-6 eBook ISBN: 978-93-5911-639-6).
2. **M. Ramachandran**, D. Arulbalachandran, and K. Jothimani (2017). ABA-Mediated Drought Stress Resistance in Crops for Sustainable Agriculture, *Springer Singapore* “Sustainable Agriculture towards Food Security” pp 69-83.

Sequence Submission

1. J. Rajkumar, Dilipan E and **Ramachandran M.** (2019) [Gordonia sp. strain BPSGA4 16S ribosomal RNA gene, partial sequence](#), Accession: MN647068.1 GI: 1772807362.

Faculty Development Programme

1. **M. Ramachandran** has participated in the A Seven Day “International Faculty Development Programme on **Advanced Research Methodology and Research Proposal – 2025**” - organized by the IQAC & PG Department of Mathematics’ Sri Vidya Mandir Arts & Science College (Autonomous), Katteri, Uthnagarai, Krishnagiri, from 07-04-2025 to 14.04.2025.
2. **M. Ramachandran** has participated in the Five Day International Virtual Faculty Development Programme on “**Global Scenario and Future Prospects in Life Sciences**” - organized by the Department of Biochemistry, Sacred Heart College (Autonomous), Tirupattur from 09-12-2024 to 13.12.2024.
3. **M. Ramachandran** has participated in the Five Day International Virtual Faculty Development Programme on “**Role of Botanical Survey of India in Systematic Research**” - organized by Department of Botany, under DBT-STAR College Scheme, Bon Secours College for Women (Autonomous), Thanjavur, Tamil Nadu from 14-10-2024 to 18.12.2024.
4. **M. Ramachandran** has participated in the Five Day International Virtual Faculty Development Programme on “**Role of Botanical Survey of India in Systematic Research**” - organized by Department of Botany, under DBT-STAR College Scheme, Bon Secours College for Women (Autonomous), Thanjavur, Tamil Nadu from 14-08-2024 to 18.08.2024.
5. **M. Ramachandran** has participated in the Five Day International Virtual Faculty Development Programme on “**RECENT TRENDS IN BIOLOGICAL SCIENCES**” - (RTBS 2023) organized by the Department of Botany from 16.10.2023 to 20.10.2023.
6. **M. Ramachandran** has participated in the National Level Virtual Faculty Development Program on the topic “**Best Practices Benchmarking in HEI's for Quality Enhancement**” organized by Guru Shree Shantivijai Jain College for Women from 26th to 31st October 2023.
7. **M. Ramachandran** has participated in the National Level Virtual Faculty Development Program on the topic “**Best Practices Benchmarking in HEI's for Quality Enhancement**” organized by Guru Shree Shantivijai Jain College for Women from 26th to 31st October 2023.
8. **M. Ramachandran** has successfully completing the course “Cell Culture Technologies” with a consolidated score of 51% (**Faculty Development Programme by NPTEL**)

Certificate Course

1. **M. Ramachandran** has successfully completing the course “Cell Culture Technologies” with a consolidated score of 51% (**Faculty Development Programme by NPTEL – SWAYAM**)

Appreciation Certificate

1. **Dr. M. Ramachandran**. Assistant Professor, PG Departemnet of Botany, Sri Vidya Mandir Arts & Science College (Autonomous), Katteri, Uthnagarai, has served as Ogranising and Exrcutive Committee member for the “International Conference on Life Sciences with Future Perspectives

on World Challenges and Developments (ICLS –FPWCD -2025)” held on 04th & 5th February, 2025.

Student Project Scheme - Seminar Paper - Tamil Nadu State Council for Science and Technology

1. M. Ramya, Arulbalachandran D. and **M. Ramachandran** (2019) “**Screening of drought stress tolerance rice genotypes in varied arid regions of western Tamil Nadu**” Seminar Cum Exhibition Paper Sponsored by Tamil Nadu state council for Science and Technology (TNSCST - **Project**).
2. V. Vinothini, Arulbalachandran D. and **M. Ramachandran** (2018). “**ABA amelioration on PEG induced drought stress of Rice (*Oryza sativa* L.)**.” Seminar Cum Exhibition Paper Sponsored by Tamil Nadu state council for Science and Technology (TNSCST - **Project**).

List of Papers/Abstracts Presented in National /international Conferences

1. J.Sasikala., G. Subramanian and M. Ramachandran “**A Survey on the Biodiversity of Flora in Sri Vidya Mandir Arts & Science College (Autonomous) Campus, Katteri, Uthangarai, Krishnagiri District**” Organized by Department of Microbiology, Madras Christian College, Chennai, Held on 06 & 7th March 2025.
2. J.Sasikala., G. Subramanian and M. Ramachandran “**Biochemical Characterization And Nutritional Potential Of Marine Cyanobacterial Species**” Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
3. P. Vimala., P. Premalatha., P. Karupannan., C. Makesh Kumar. and M. Ramachandran “**General Insect Pests In Homes And Cultural Heritage Sites**” Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
4. Ansar Ali, M. Ramachandran and V. Chinnadurai “**Climate-Driven Changes In Nectar Availability And Pollinator Foraging Patternss**”. Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
5. M. Meera and M. Ramachandran “**Seaweed Bioplastics As Better Alternative To Plastic**” Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
6. T. Gokul Sarvesh., D. Arulbalachandran., E. Dilipan., S. Ramya and M. Ramachandran “**Priming Of Plant Resistance To Biotic And Abiotic Stresses By Seaweed Extract**” Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
7. R. Rithika., D. Arulbalachandran., S. Ramya., K. Yasmin and M. Ramachandran. “**Plant Growth Regulators To Mitigate Drought Stress Tolerance In Crops**” Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
8. A. Akshaya., D. Arulbalachandran., S. Ramya., R. Ramkumar and M. Ramachandran. “**A Review - Effects Of Microplastics On Human Health**” Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
9. S. Kaviyarasan., D. Arulbalachandran., S. Ramya., Dilipan E and M. Ramachandran. “**Role Of Biochar On Abiotic Stress Tolerance**” Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
10. R. B. Sneha., D. Arulbalachandran., S. Ramya., K. Yasmin and M. Ramachandran. “**Application**

- Of Nanoparticles (Nps) To Ameliorate Abiotic Stress In Plants: A Review**” Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
11. S. Priya., K. Gopika., S. Ramya and M. Ramachandran. **“Organic Fertilizer A Key Component Of Organic Agriculture As Better Alternative To Chemical Fertilizer”** Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
 12. R. Poovizhi., K. Agalya S. Ramya and M. Ramachandran. **“Improvement Of Soil Health Using Biochar - A Review”** Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
 13. B. Muthzhazhgi., S. Kaviyarasi., C. Aasiaka., K. Deepa and M. Ramachandran. **“Phytoremediation Using Technology In Plants”** Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
 14. S. Manimegalai., S. Chennammal., K. Swapna., K. Kaviya. And M. Ramachandran. **“Mobile Applications For Farmers In India”** Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
 15. D. Dharani., R. Sankar., G. Sudhakar., S. Naveenkumar, V. Prabanjan and M. Ramachandran. **“A Review - Role Of Azolla In Rice Production”** Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 4 & 5th February 2025.
 16. R. Rithika., Ramya S., Arulbalachandran D., Dilipan E., Yasmin K. and Ramachandran M. **“A Review - Application of nanoparticles in plant growth physio-chemical and cellular responses under water deficit condition”** National Conference on Medicinal Plant Metabolites (NCFMP-2024), Organized by Department of Botany, School of Life Sciences, Periyar University, Salem, Held at 12, and 13th September, 2024.
 17. Gokul Sarvesh T., Ramya S., Arulbalachandran D., Dilipan E. and. Ramachandran. M. Oral Presentation on **A Review - Application of Seaweed extracts for Sustainable Agriculture in Rice (*Oryza sativa* L.)**” National Conference on Medicinal Plant Metabolites (NCFMP-2024), Organized by Departemnt of Botany, School of Life Sciences, Periyar University, Salem, Held at 12, and 13th September, 2024.
 18. A. Mugilan., M. Ramachandran., S. Ramya., K. Yasmin and R. Ramkumar **“Application Of Chitosan On Plant Responses With Special Reference To Drought Stress”** Organized by PG and Department of Botany & Zoology, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 27 & 28th March 2024.
 19. T. Gokul Sarvesh., M. Ramachandran., K. Murugesan., D. Arulbalachandran., E. Dilipan and S. Ramya. **“Application Of Nano - Biotechnology In Drought Stress Management - A Review”** Organized by PG Department of Botany & Zoology, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 27 & 28th March 2024.
 20. S. Thirumalai., C.Sathyamoorthy., S. Manikandan., M.Ramachandran., and S. Ramya. **“Bio Fertilizers: Foundation For The Next Revolution In Agriculture”** Organized by PG Department of Botany & Zoology, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 27 & 28th March 2024.
 21. M. Sowmiya., V. Sennammal., N. Pushpalatha., M. Ramachandran., and S. Ramya **“A Review - Study Of Pichavaram Mangrove Biodiversity Forest, Tamil Nadu”** Organized by PG Department of Botany & Zoology, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 27 & 28th March 2024.
 22. R. Ramkumar., S. Kasthuri., D. Priyanka., M. Ramachandran and D. Dhanavel **“Gamma Rays And Ems Induced Changes On Cytology Of Little Millet”** Organized by PG Department of Botany & Zoology, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 27 & 28th March 2024.

23. M. Mahalakshmi., K. Aswini., S. Thennarasi., M. Mugilpriya., Poovizhi R., P. Vino., M. Ramachandran **“Seaweed Liquid Fertilizer And Their Role In Plant Growth Under Abiotic Stress - A Review”** Organized by PG Department of Botany & Zoology, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 27 & 28th March 2024.
24. V. Aravind., N. Vignesh., S. Nandhakumar., R. Ranjithkumar., V. Chinnadurai and M. Ramachandran **“A Review On Silver Nanoparticles Synthesis And Applications”** Organized by PG and Research Department of Botany & Zoology, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 27 & 28th March 2024.
25. R. Rithika., M. Ramachandran., D. Arulbalachandran., E. Dilipan and S. Ramya **“A Review - Seaweed Extract Biostimulant Mitigates Drought Stress Tolerance In Crops”** Organized by PG Department of Botany & Zoology, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 27 & 28th March 2024.
26. T. Hema deepa, V. Chinnadurai, M. Ramachandran, and S. Ramya. Oral Presentation on **“Survey Of Endangered Species In Red Data Book A Part Southern Region”** Organized by PG Department of Botany & Zoology, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 27 & 28th March 2024.
27. **M. Ramachandran.**, D. Arulbalachandran., E. Dilipan., and S. Ramya., Oral Presentation **“FTIR and ESR Spectroscopy – A valuable Tool to study of drought tolerance mechanism in rice (*Oryza sativa* L.)”** Organized by PG and Research Department of Physics, Sri Vidya Mandir Arts and Science (Autonomous), Katteri, Uthangarai, Krishnagiri (Dt), Salem – 636 011, Held on 20 & 21st February 2024.
28. **M. Ramachandran.**, D. Arulbalachandran., E. Dilipan., S. Ramya., and P.Vino Poster Presentation **“Utilization of algal biomass into value added metabolites: new trends and opportunities”** Organized by PG and Research Department of Botany, Padmavani Arts and Science College for Women (Autonomous), Salem – 636 011, Held on 23rd August 2023.
29. M. Arulkumar, E.G. Wesely, **M. Ramachandran**, R. Ramkumar, R. Soundarya, L. Sahana, and P. Pavithra. Poster Presentation **“A Review - Seaweed phenolic compounds to growth enhances and stress alleviation in crops”** International conference on **“Contemporary Zenith and Rejuvenation in Organic Agriculture & Microbial Biotechnology for Sustainable Agriculture”** Organized by PG and Research Department of Botany, Padmavani Arts and Science College for Women (Autonomous), Salem – 636 011, Held on 23rd August 2023.
30. R.Ramkumar, M.Arulkumar, **M.Ramachandran**, R. Soundarya and D. Priyanka Poster Presentation **“Induction of Yield, Biochemical and Genetic Variability By Using Gamma Rays on Little Millet”** International conference on **“Contemporary Zenith and Rejuvenation in Organic Agriculture & Microbial Biotechnology for Sustainable Agriculture”** Organized by PG and Research Department of Botany, Padmavani Arts and Science College for Women (Autonomous), Salem – 636 011, Held on 23rd August 2023.
31. M. Arulkumar, R. Ramkumar, **M. Ramachandran**, C. Sabitha and V. Arunachalam. Oral Presentation **“Seaweeds biofertilizer: implications towards sustainable agriculture (2023)”**. International conference on Future Perspectives of Bioresources and Nanosciences (FPBN-2023), Organized by Department of Botany, Periyar University, Salem -11, Held on February, 16, to 17th, 2023.
32. C. Karthisaran, C. Muhamad Binsad, **M. Ramachandran**, V. Soundarya and D. Arulbalachandran. Oral Presentation **“Multipurpose application of chitosan nanoparticle in modern Agriculture”** 13th NABS- National Conference on “Current Perspectives for Sustainable Development in Life Science, Environment and Agriculture” Organized by Periyar University, Salem -11, Held on January 23rd to 25th, 2023.

33. L. Pavithra, P. Anitha, G. Vaishnavi, V. Balamurugan, G. Aswini, **M. Ramachandran** and D. Arulbalachandran. Oral Presentation **“Synthesis of silver nanoparticle by using *Drynaria quercifolia* rhizome extract as enhancing seed germination”** 13th NABS- National Conference on “Current Perspectives for Sustainable Development in Life Science, Environment and Agriculture” Organized by Periyar University, Salem -11, Held on January 23rd to 25th, 2023.
34. **M. Ramachandran** D. Arulbalachandran., E. Dilipan and S. Ramya M. Saranya, and P. Nirmala. Oral Presentation **‘Effect of abscisic acid treatment and metabolic changes of two rice (*Oryza sativa* L.) Varieties under drought stress’** International Conference on Frontiers in Sustainable Agriculture and Biological Sciences (FSABS-2020) Organized by Department of Botany, School of Life Sciences, Periyar University, Salem, Tamil Nadu, Held on March 16-17, 2020.
35. **M. Ramachandran** participated in the **“Workshop for Research Scholars”** Organized by Periyar University, Salem, Held on 28th November 2019.
36. **M. Ramachandran** D. Arulbalachandran., E. Dilipan and S. Ramya. Oral presentation in **“Effects of PEG induced drought stress on plant growth, biochemical constituents in sensitivity and tolerance of rice (*Oryza sativa* L.) with application of abscisic acid”** International conference on “Innovative and Emerging Trends in Botany (ICIETB -2019) Organized by Department of Botany, Alagappa University, Karaikudi, Tamil Nadu, Held on 6-7th November, 2019.
37. T. Nivetha., S. Chandiran., D. Arulbalachandran., E. Dilipan., **M. Ramachandran**. Oral presentation in **“A role of Absciscic acid in plant stress tolerance”** National Conference on “Frontiers in Ecobiological Sciences and its Applications (FESA - 2019) Theme: Agriculture, Ecosystem and Environment”, Organized by School of Life Sciences, Periyar University, Salem, Tamil Nadu, Held on **October 16 to 18, 2019**.
38. M. Saranya., P. Nirmala., D. Arulbalachandran., E. Dilipan., **M. Ramachandran** **“Drought stress response: morphological, physiological changes and adaptation mechanism in rice (*Oryza sativa* L.)”** National Conference on “Frontiers in Ecobiological Sciences and its Applications (FESA - 2019) Theme: Agriculture, Ecosystem and Environment”, Organized by School of Life Sciences, Periyar University, Salem, Tamil Nadu, Held on **October 16 to 18, 2019**.
39. **M. Ramachandran.**, D. Arulbalachandran., E. Dilipan and S. Ramya. Oral presentation in **“Absciscic acid with plant hormones crosstalk during abiotic stresses”** National conference on “Innovative Approaches & Modern Techniques in Biological Sciences 2019 (IAMTBS-2019)” Organized by Department of Botany, Periyar University, Salem, Tamil Nadu, Held on 22nd January, 2019.
40. V. Sivaranjani., D. Arulbalachandran., E. Dilipan and **Ramachandran M.** Oral presentation in **“Role of plant hormones under abiotic stress tolerance in crops”** National conference on “Innovative Approaches & Modern Techniques in Biological Sciences 2019 (IAMTBS-2019)” Organized by Department of Botany, Periyar University, Salem, Tamil Nadu, Held on 22nd January, 2019.
41. P. Shanmugapriya., D. Arulbalachandran., E. Dilipan and **Ramachandran M.** Oral presentation in **“A Review of Growth and Morphological changes in rice (*Oryza sativa* L.) under abiotic stress”** National conference on “Innovative Approaches & Modern Techniques in Biological Sciences 2019 (IAMTBS-2019)” Organized by Department of Botany, Periyar University, Salem, Tamil Nadu, Held on 22nd January, 2019.
42. M. Ramya., D. Arulbalachandran., E. Dilipan and **Ramachandran M.** Oral presentation in **“Absciscic acid in rice response and adaptation to drought stress ”** National conference on “Innovative Approaches & Modern Techniques in Biological Sciences 2019 (IAMTBS-2019)” Organized by Department of Botany, Periyar University, Salem, Tamil Nadu, Held on 22nd January, 2019.

43. **M. Ramachandran**, and Arulbalachandran D. Poster presentation in “**Exogenous abscisic acid mediated morphological characteristics, Photosynthetic pigments and antioxidant metabolism under drought stress in rice (*Oryza sativa* L.)**” National conference on Abiotic stress management: challenges and Opportunities, Organized by Department of Crop physiology, Tamil Nadu agricultural University, Coimbatore, Tamil Nadu, Held on 25th and 26th October 2018.
44. **M. Ramachandran**, and Arulbalachandran D. Oral presentation in “**Exogenous abscisic acid mediated morphological characteristics, biochemical analysis of rice (*Oryza sativa* L.) ADT-45 under drought**” National conference on Basic applied Biological Sciences- 2018 Organized by Department of Botany & Department of Biochemistry, Bharathiyar University, Coimbatore, Tamilnadu, during 10th and 11th October 2018.
45. **M. Ramachandran**, and Arulbalachandran D. Oral presentation in “**Role of endogenous abscisic acid in drought for Rice (*Oryza sativa* L.)**” International symposium on Innovation and Advancement in Agriculture and Plant Sciences (IAAPS 2018). Organized by Dhanalakshmi Srinivasan Agriculture College, Perambalur -621 212.Held on 23rd May 2018.
46. **M. Ramachandran**, and Arulbalachandran D. Oral presentation in International conference on Recent Scenario in Plant Science Research-Climate change and its Associated Variations (ICRSPSR -2018)”. Organized by Department of Botany, Annamalai University, Annamalai Nagar, Tamil Nadu. Held on 23rd to 25th March 2018.
47. **M. Ramachandran**, Arulbalachandran D and Ramya S. National seminar on “**Absciscic acid mediated morphological characteristics, biochemical analysis two varieties of Rice (*Oryza sativa* L.) under drought**” Frontiers in Ecobiological Sciences and its Applications (FESA 2018) organized by School of Life Sciences, Periyar University. Held on 17 -18 March 2018.
48. **M. Ramachandran**, Arulbalachandran D. and Ramya S National Conference on “Bioresource Utilization for Sustainable Food and Energy Production (BioSFEP-2018)” Oral presentation on “**Absciscic acid mediated antioxidant metabolism under drought stress in Rice (*Oryza sativa*)**” organized by Department of Botany, Periyar University. Held on 1-2nd February 2018.
49. V. Vinothini D. Arulbalachandran **M. Ramachandran** and S. Ramya National Conference on “Bioresource Utilization for Sustainable Food and Energy Production (BioSFEP-2018)” “**A review- Effect of drought physiological changes in rice (*Oryza sativa* L.)**” organized by Department of Botany, Periyar University. Held on 1-2nd February 2018.
50. **Ramachandran M.** and Arulbalachandran D. Oral presentation in “Frontiers in Ecobiological Sciences and its Applications (FESA 2017)” **ABA mediated changes in on Biochemical characteristics of black gram (*Vigna mungo* (L.) Hepper) under induced drought**, organized by School of Life Sciences, Periyar University. Held on 16 -17 March 2017.
51. **Ramachandran M.** and Arulbalachandran D. Oral presentation in “Frontiers in Ecobiological Sciences and its Applications (FESA 2016)” **Alteration of Biochemical and antioxidants in drought stress in crops**” organized by School of Life Sciences, Periyar University. Held on 17 -18 March 2016.
52. **Ramachandran M.** and Arulbalachandran D. National Conference 9th NABS on New Biological Researches: Opportunities and Challenges for Sustainable Development, Oral presented on “**ABA mediated changes in on Morphological characteristics and Chlorophyll of black gram (*Vigna mungo* (L.) Hepper) under induced drought**” Organized by School of energy, Environment and Natural Resources, Madurai Kamaraj University, Tamil Nadu, India. Held on 11-12th August 2016.
53. Sajan Sunny, D. Arulbalachandran, K. Jothimani and **M. Ramachandran**. National Conference on Challenges and Future Perspective of Plant Sciences. “**Environmental stress and Antioxidant mechanism**” Organized by Department of Botany, Periyar university, Periyar Palkalai Nagar, Tamil Nadu, India, Salem-11. Held on 7-8th October 2015.

54. Saraswathi K., D. Arulbalachandran, K. Jothimani and **M. Ramachandran**. National Conference on Challenges and Future Perspective of Plant Sciences. '**Endangered Species of Medicinal Plants**' Organized by Department of Botany, Periyar university, Periyar Palkalai Nagar, Tamil Nadu, India, Salem-11. Held on 7-8th October 2015
55. Sekar K., D. Arulbalachandran, K. Jothimani and **M. Ramachandran**. National Conference on Challenges and Future Perspective of Plant Sciences. '**Endangered species of legumes plant**' Organized by Department of Botany, Periyar University, Periyar Palkalai Nagar, Tamil Nadu, India, Salem-11. Held on 7-8th October 2015.
56. Pradeepkumar R., K. Saraswathi, D. Arulbalachandran, K. Jothimani and **M. Ramachandran**. National Seminar on Biodiversity Products and Industrial Applications, "**Legumes and human nutrition**" Organized by Department of Botany, Periyar university, Periyar Palkalai Nagar, Tamil Nadu, India, Salem-11. Held on 28-29th September 2015.
57. Sekar K., D. Arulbalachandran, and **M. Ramachandran**. National Seminar on Biodiversity Products and Industrial Applications, "**Antidiabetic properties of bitter gourd, fenugreek and cucumber**" Organized by Department of Botany, Periyar university, Periyar Palkalai Nagar, Tamil Nadu, India, Salem-11. Held on 28-29th September 2015.
58. Aswini G., D. Arulbalachandran, K. Jothimani and **M. Ramachandran**. National Seminar on Biodiversity Products and Industrial Applications. "**Antioxidant mechanism in abiotic stress of crop plants**" Organized by Department of Botany, Periyar University, Periyar Palkalai Nagar, Tamil Nadu, India, Salem-11. Held on 28-29th September 2015.
59. Santhosh M., D. Arulbalachandran, K. Jothimani, K. Yasmin and **M. Ramachandran**. National Seminar on Biodiversity Products and Industrial Applications. '**Molecular markers in crop improvement**' Organized by Department of Botany, Periyar University, Periyar Palkalai Nagar 28-29th September 2015. Tamil Nadu, India, Salem-11. Held on 28-29th September 2015
60. Ramya S., D. Arulbalchandran, K. Jothimani, K. Yasmin and **M. Ramachandran**. National Seminar on Biodiversity Products and Industrial Applications. "**Mutation breeding in legumes for sustainable development**" Organized by Department of Botany, Periyar University, Periyar Palkalai Nagar, Tamil Nadu, India, Salem-11. Held on 28-29th September 2015.
61. **M. Ramachandran**. Presented in poster presentation entitled "**A review on Pichavaram Mangrove Forest, Southeast India**" National level seminar on "Current Trends in Biodiversity Conservation and Forest Management (CTBCFM-2014)" held on 6th to 7th January 2014 at centre for Biodiversity and Forest studies, Periyar University, Salem.

Conference/Seminar/Workshop Participated

1. **M. Ramachandran**. Participated in the 2nd National Level Seminar on "Stem Cell Research : The Roadmap for Next Generation" Organized by Department of Botany, Morappur Kongu College of Arts & Science held on 22nd January, 2025.
2. **M. Ramachandran**. Participated in the two days International Seminar on "**Herbal Products and Drug Discovery**" Organized by Department of Botany, Morappur Kongu College of Arts & Science held on 30th & 31st July, 2024.
3. **M. Ramachandran**. Participated in the National Level Seminar on "Environmental Issues and Solutions" Organized by Department of Botany, Morappur Kongu College of Arts & Science held on 23rd January, 2024.
4. **M. Ramachandran**. Participated in the One day Training Programme on "**Terrace Garden & Kitchen Garden**" Organized by Internal Quality Assurance Cell (IQAC), Sri Vidya Mandir Arts and Science College, Katteri, Uthangarai, on 05th October, 2023.
5. **M. Ramachandran**. Participated in the Hands on Workshop in "Plant Identification &

Taxonomical key Preparation” on the celebration of International Forest Day -2023. Organized by PG Department of Botany, Sri Vidya Mandir Arts and Science College, Katteri, Uthangarai, on 21st March, 2023.

6. **M. Ramachandran.** Participated in the international Conference IMMUNFEST -2023 Organized by Department of Biotechnology, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technolgy (PRIST), Deemed to be University, Thajavur, held on 28th April, 2023.
7. **M. Ramachandran.** Participated in the international Webinar “Multifunctional Nano-Composites Based Sensors for Biomedical Applications” organized by Department of Physiology, Saveetha Dental College & Hospitals, Chennai, on 30th March 2023.
8. **M. Ramachandran,** Participated in the State level Conference on “Sustainable Materials and Applications for Innovating Our Future (SMAIF-23)” Organized by Department of Chemistry Muthayammal Memorial College of Arts and Science, Kakkaveri, Rasipuram -637 408, Held on 4th March, 2023.
9. **M. Ramachandran,** Participated in the International Conference on “Future Perspectives of Bioresources and Nanosciences (FPBN-2023)” Organized by Department of Botany, Periyar University, Salem -11, Held on February 16 and 17th, 2023.
10. **M. Ramachandran,** Participated in the 13th NABS- National Conference on “**Current Perspectives for Sustainable Development in Life Science, Environment and Agriculture**” Organized by Periyar University, Salem -11, Held on January 23rd to 25th, 2023.
11. **M. Ramachandran,** Participated in the International Conference on “**Current Trends in Medicinal Chemistry**” Organized by Department of Physiology, Saveetha Dental College & Hospital and Association of Chemistry Teachers (ACT) on 24th and 25th January, 2023.
12. **M. Ramachandran.** Participated in the intercollegiate webinar “A Peek into using Next Generation Sequencing (NGS) for understanding bacterial whole genomes” organised by Department of Physiology, Saveetha Dental College & Hospitals, Chennai, on 1^{9th} October 2022.
13. **M. Ramachandran.** Participated in the intercollegiate webinar “Patenting in Biological Sciences” Held on 1st February, 2022.
14. **M. Ramachandran.** Participated in the International webinar on “Jute and the world within” Event organised by Bioingene.com, held on 20th December, 2021.
15. **M. Ramachandran.** Participated in the National level webinar on “National Education policy: Multidisciplinary and Holistic Education” Event organised by IQAC of Sri Venkataramana Swamy College, Bantwal under UGC PARAMARSH college Scheme on September 23, 2021.
16. **M. Ramachandran.** Participated in the International Virtual Conference on “ Achieving Food Security through Climate – Resilient Rice Inreds and Hybrids” Event organised by Department of Genetics and Plant Breeding, Faculty of Agriculture, Annamalai University, on September 22, 2021.
17. **M. Ramachandran.** Participated in the National webinar on “ Dementia” Event organised by Department of Zoology and Biotchnology, Govt. Girls’ P.G. College, Ujjain (M.P.), held on September 21st, 2021.
18. **M. Ramachandran.** Participated in the International webinar on “Climate Smart Agriculture from Multi- Omics Perspective” Event organised by Bioingene.com, held on 17th September, 2021.
19. **M. Ramachandran.** Participated in the International Virtual Conference on “Digital Filed Book –Paperless Data Collection/ Android Application” Event organised by Department of Genetics and Plant Breeding, Faculty of Agriculture, Annamalai University, on September 15, 2021.
20. **M. Ramachandran.** Participated in the ‘Silver jubilee Celebratory Webinar- Author workshop on ‘Art of publishing research papers in high impact journals (with Scopus)’ at Indian institute of

Management Kozhikode, on Wednesday 15 September, 2021. Presented by Vishal Gupta Senior Customer Consultant.

21. **M. Ramachandran.** Participated in the National Webinar on 'Nanoscience for 21st Century' Organized by IQAC & Department of Chemistry, Shri Anand College, Pathardi on Monday 13th September, 2021.
22. **M. Ramachandran.** Participated in the 'Essential Tips for Publishing in High Impact Journals' at Cell Press, on Wednesday 08 September, 2021. Presented by Ilaria Cianchetta Editor –in Chief, Chem Catalysis.
23. **M. Ramachandran.** Participated in the International Plastic Bag Free Day 2021, International Online Quiz "Plastic Pollution" Event organised by PG Department of Zoology, Aditanar College of Arts and Science, Tiruchendur, Thoothukudi Dist, held on 02nd to 4th July, 2021.
24. **M. Ramachandran.** Participated in the "National Quiz Programme" Event organised by PG Department of Zoology, Syed Ammal Arts and Science College, Ramanathapuram-623 513, held on 25th June, 2021.
25. **M. Ramachandran.** Participated in the National webinar on "Advancing Biotechnology as a promising Field of Science" Event organised by Department of Plant Biology and Plant Biotechnology, Thiruthangal Nadar College, Chennai-600051, held on 25th June, 2021.
26. **M. Ramachandran.** Participated in A one day National webinar on "Covid-19 and its impact on fishers sector" Event organised by Department of Sociology, Bishop Caldwell College, Thoothukudi, held on 25th June, 2021.
27. **M. Ramachandran.** Participated in the E- Quiz on "Sickle Cell Anemia" Event organised by PG and Research Department of Microbiology, V.HN. Senthilkumara Nadar College (Autonomous), Virudhunagar, held on 19th June, 2021.
28. **M. Ramachandran.** Participated in the National webinar on "Mucormycosis and Post Covid Recovery; Effect, Complication and Solutions" Event organised by Department of Plant Biology and Plant Biotechnology, under the aegis of IQAC, Guru Nanak College (Autonomous), Guru Nanak Salai, Velachery, Chennai - 600 042, through virtual mode, held on 18th June, 2021.
29. **M. Ramachandran.** Participated in the National webinar on "Plant metabolic Engineering" Event organised by Department of Plant Biology and Plant Biotechnology, Guru Nanak College (Autonomous), Guru Nanak Salai, Velachery, Chennai - 600 042, through virtual mode, held on 15th June, 2021.
30. **M. Ramachandran.** Participated in the International webinar on "Genome editing to enhance multiple Disease Resistance in crops plants" Event organised by McGill University, Canada, through virtual mode, held on 20th December, 2020.
31. **M. Ramachandran.** Participated in the International webinar on "Translational genomics for achieving higher genetic gains in groundnut" Event organised by Bioingene.com, held on 4th December, 2020.
32. **M. Ramachandran.** Participated in the International webinar on "From breeding to genome editing: long-term strategies to contain plant diseases" Event organised by Bioingene.com, held on 24th November, 2020.
33. **M. Ramachandran.** Participated in the International webinar on "Soft Skills: Create a positive and productive work environment" Event organised by Bioingene.com, held on 3rd November, 2020.
34. **M. Ramachandran.** Participated in the International webinar on 'Molecular and physiological mechanisms of drought tolerance in Rice - A tale of backbencher gene' Event organised by Bioingene.com, held on 19th October, 2020.
35. **M. Ramachandran.** Participated in the Webinar on 'Fulbright-Nehru Fellowships' Event

organised by IQAC, St. Joseph's Training College, Mannanam, Kottayam, held on 27th October, 2020.

36. **M. Ramachandran.** Participated in the International webinar on 'MirRORs (miRNA Regulation of response) to Salt stress in plants' Event organised by Bioingene.com, held on 13th October, 2020.
37. **M. Ramachandran.** participated in the one day International webinar on Covid-19 Pandemic Effect Global Population and Economic, Event organised by PG & Research Department of Botany, Kandaswami Kandar's college, Vellur, Namakkal, Tamil Nadu, 12th September, 2020.
38. **M. Ramachandran.** participated in the webinar event conducted through Zoom application on "Metagenomics for Climate Resilient Agriculture" organised by Centre for Climate Change Studies, Sathyabama Institute of Science and Technology (Deemed University), Chennai 15th August, 2020.
39. **M. Ramachandran.** Participated in the 'Online-National level quiz competition 'Genetics' Organized by Division of Biology, ARR Government Higher Secondary School School, Karanaiperichanur, Villupuram-605 755, Tamil Nadu, Held on 8th July, 2020.
40. **M. Ramachandran.** Participated in the Online-Seminar on 'Development of climate change resilient rice varieties through molecular breeding' Organized by Bioingene.com, held on 06th July, 2020.
41. **M. Ramachandran.** Participated in the workshop on "Workshop for Research Scholars" Organized by Periyar University, Salem held on 28th November, 2019.
42. **M. Ramachandran.** Participated in the international conference on "Current Scenario of Physiology and Behavior" Organized by Department of Zoology, Periyar University, Salem held on 22nd and 23rd February, 2019.
43. **M. Ramachandran.** Participated in the One day National Level Workshop on "Herbalism- Future Remedy" Organized by Department of Botany, Periyar University, and Salem held on 4th January, 2019.
44. **M. Ramachandran.** Participated in the "International Conference on Extremophilic Microbes for Sustainable Development in Agriculture, Environment and Health (EMAEH-2018)" Organized by Department of Microbiology, Periyar University, Salem held on 19-21, December 2018.
45. **M. Ramachandran.** Participated in the "International Seminar on Research Intelligence and Database (RID-2018)" Organized by Department of Library and Information Science, Periyar University, Salem held on 14th December 2018.
46. **M. Ramachandran.** Participated in the National Seminar on "Social Media in Teacher Education (SMTE-2018)" Organized by Department of Education, Periyar University, Salem. Held on 9th February 2018.
47. **M. Ramachandran.** Participated in the workshop on "Simplified and Innovative Technology for the Large Scale Cultivation of Oyster Mushroom" "Organized by Department of Biochemistry, Periyar University, Periyar Palkalai Nagar, Salem Tamil Nadu, India. Held 11th to 15th December 2017.
48. **M. Ramachandran.** Participated in the National Seminar on "New Horizons in Plant Biotechnology (NHPB -2017)"workshop on "Innovative Approaches on Herbal Products" "Organized by Department of Biotechnology, Periyar University, Periyar Palkalai Nagar, Salem Tamil Nadu, India. Held On 6th December 2017
49. **M. Ramachandran.** Participated in the workshop on "Innovative Approaches on Herbal Products" "Organized by Department of Botany, Periyar University, Periyar Palkalai Nagar, Salem Tamil Nadu, India. Held On 13th October 2017.

50. **M. Ramachandran.** Participated in the “International Conference on Impact of Climate Change on Water Resources (ICWR-2018)” Organized by Centre for Geoinformatics and Planetary Studies, Periyar University, Salem-11, Tamil Nadu, India. Held On 12-13 July 2018.
51. **M. Ramachandran.** Participated in the Training programme on “Training on Edible Mushroom Cultivation Technology” Organized by Department of Botany, Periyar University, Periyar Palkalai Nagar, Salem, Tamil Nadu, India. Held On 1- 3rd March 2017.
52. **M. Ramachandran.** International seminar on “Recent Trends in Higher Education: Challenges and Strategies” Organized by Department of Library and Information Science, Periyar University, Periyar Palkalai Nagar, Salem Tamil Nadu, India. Held On 15th March 2017.
53. **M. Ramachandran.** National Workshop on “Botanical Identification” Sponsored TANSCH, Chennai” Organized by Department of Botany, Arignar Anna Govt. Arts College, Namakkal, Held On 23-24th February 2017.
54. **M. Ramachandran.** International Seminar on Measurement of Quality Publications :Issues, Challenges and Opportunities (MQPICO 2016) Organized by Department of Library and Information Science, Periyar University, Periyar Palkalai Nagar, Salem Tamil Nadu, India. Held On 23rd November 2016.
55. **M. Ramachandran.** International conference on “Food, Energy and Water Microbiology” Organized by Department of Microbiology, 21-22 December 2016.
56. **M. Ramachandran.** National Seminar On Plant microbes interactions for sustainable agriculture (PMISA) Organized by Department of Botany, Periyar University, Periyar Palkalai Nagar, Salem Tamil Nadu, India. Held On 2nd September 2016.
57. **M. Ramachandran.** International Seminar On “Perspectives in modern biology” Organized by Department of Botany, Periyar University, Periyar Palkalai Nagar, Salem Tamil Nadu, India. Held On 2nd September 2016.
58. **M. Ramachandran.** “9th NABS National conference new biological research: Opportunities and challenges for sustainable development ” Agriculture, Biology, energy Environment, Health and Climate Change Organized by Department of Energy Studies Madurai Kamraj University, Madurai. Held on 11-12th August 2016.
59. **M. Ramachandran.** International Seminar On “ Soil Health for Sustainable Future (SHSF - 2015)” Organized by Department of Environmental Science, Periyar University, Periyar Palkalai Nagar, Salem Tamil Nadu, India. Held On 3rd December 2015.
60. **M. Ramachandran.** National Seminar On “Challenges and Future Perspective of Plant Sciences (NCP-2015)” Organized by Department of Botany, Periyar University, Periyar Palkalai Nagar, Salem Tamil Nadu, India. Held On 7th and 8th October 2015.
61. **M. Ramachandran.** National Seminar On “Life Science for Nation Building” Organized by Department of Zoology, Periyar University, Periyar Palkalai Nagar, Salem Tamil Nadu, India. Held On 27th and 28th February 2015.
62. **M. Ramachandran.** National Seminar On “Life Science for Nation Building” Organized by Department of Zoology, Periyar University, Periyar Palkalai Nagar, Salem Tamil Nadu, India. Held On 27th and 28th February 2015.
63. **M. Ramachandran** participated in the training Program on “Hands on Training on Edible Mushroom Cultivation” Organized by Department of Botany, Periyar University, Salem. Held on 12th February 2015.
64. **M. Ramachandran** participated in National workshop on “Green initiatives in Energy and Environment (GIEE -2014)” Organized by Department of Environmental Science, Periyar University, Salem. Held on 11th September 2014.

65. **M.Ramachandran** participated in National workshop on “Microbes to Commercial Products” Organized by Department of Microbiology, Periyar University, Salem. Held on 2nd September 2014.
66. **M.Ramachandran** participated in International Seminar on “Nanobiotechnology in Cancer Research” Organized by Department of Biotechnology, Periyar University, Salem. Held on 21st July 2014.
67. **M.Ramachandran** participated in National Seminar in “Innovative Approaches on Plant Science (IAPS -2014)” Organized by Department of Botany, Periyar University, Salem. Held on 14th February 2014.
68. **M.Ramachandran** participated in “National Seminar in Current Zoology” Organized by Department of Zoology, Periyar University, Salem. Held on 21st January 2014.
69. **M.Ramachandran** participated in one day state level seminar and exhibition on “Plant food, the Herbal Medicine for Health” held on 22nd January 2011 at Arignar Anna Govt. Arts College, Namakkal.

Training Program/ Workshop participated

1. **M. Ramachandran.** participated in the online training programme on “**Liquid Fertilizer Preparation From Seaweeds**” organized by Department of Aquaculture, Dr. M.G.R. Fisheries College and Research Institute Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Thalainayeru - 614 712, Nagapattinam Dt, Tamil Nadu, held on 07 October, 2020.
2. **M. Ramachandran.** National Workshop on “**Botanical Identification**” Sponsored TANSCH, Chennai” Organized by Department of Botany, Arignar Anna Govt. Arts College, Namakkal, Held On 23-24th February 2017.
3. **M. Ramachandran** participated in the training Program on “**Aquifer information and ground water Management through participatory Approach**” Organized by Central ground water board, South Eastern Coastal Region of Rajiv Gandhi National Ground Water Training and Research Institute , Raipur at Periyar University, Salem. Held on 18th and 19th June 2015.
4. **M. Ramachandran** participated in the “**Innovative Programme Retreat of Biology on “Cutting Edges of Modern Techniques in Plant Sciences**” Organized by Department of Botany, Periyar University, Salem. Held on 10th December 2014.
5. **M. Ramachandran** participated in the training Program on “**Mushroom Technology**” Organized by Department of Botany, Periyar University, Salem. Held on 16th October 2014.

Internship Programme

1. **M. Ramachandran** participated in the Internship training Program on “**Drug discovery in Medicinal plant**” Organized by Alpha Omega Hi-Tech Bio Research Centre, Salem. Held on 3rd to 13th June 2014.

Citizenship training camp certificate

1. **M. Ramachandran.** “Citizenship training camp certificate” Organized by Institute of Advanced Study in Education (IASE), Saidapet, Chennai. Held on 05-02-2013 to 09-02-2013.

National Service Scheme

M. Ramachandran. Participated in the seven days special camping programme on the theme “**Health youth for health India**” Organized at Ariyanur village, Namakkal, held on 27-01-2011 to 02-02-2011.

Membership

- Indian Science Congress Life member (Id- L34408)
- All India Agricultural Students Association (Life member) ID AIASA/OTH/OL/LM-750/2021
- International Society of Paddy and Water Environment Engineering (PAWEES) Id – 90009152 – Japan

Reviewer

- Entomological Research (Wiley online Journal)
- Journal of Basic Microbiology (Frontiers)
- Cureus (Springer)
- Plant Science Today (Scopus, UGC)
- International Journal of Applied Zoology and Bioscience

Academic Committee

- BoS Member – UG & PG Board - Sri Vidya Mandir College of Arts and Science (2023-2024)
- NAAC In-charge Criteria – I
- Nature Nexus (SVMC Botanical Society) - Co- Ordinator

Personal Information

Name : **M. Ramachandran**

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Date of Birth : 12-05-1990

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Kalpaganur (Po), Attur (Tk), Salem (Dt)
636109. Tamil Nadu

Research Specialization : Crop Stress Physiology, Molecular Biology,
Plant Breeding Techniques

Google scholar - <https://scholar.google.co.in/citations?user=gbov2zoAAAAJ&hl=en>

Scopus Id - <https://www.scopus.com/authid/detail.uri?authorId=57216683420>

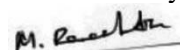
Orchid Id - <https://orcid.org/0000-0001-5966-7481>

Research gate Id - https://www.researchgate.net/profile/Ramachandran_Marimuthu

Declaration

I hereby declare that the above information furnished is true to the best of my knowledge and belief. If you given an opportunity to work in your esteemed organization, I promise that I will do it with dedication.

Yours Sincerely,



(M. Ramachandran)

Place: Katteri