



**Dr. M. RAMESH**  
**Professor**

### Contact

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### Academic Qualifications

Degree	University	Year	Subjects	Percentage
<b>B.Sc.,</b>	The Madura College (Autonomous), Madurai – 625 001.	1987	Botany	I
<b>M.Sc.,</b>	School of Biological Sciences Madurai Kamaraj University, Madurai – 625 021.	1990	Biology	I
<b>M.Phil.,</b>	School of Energy Sciences Madurai Kamaraj University, Madurai – 625 021.	1991	Energy, Environment & Natural Sciences	I
<b>Ph.D.,</b>	Centre for Plant Molecular Biology (CPMB), School of Biotechnology, Madurai Kamaraj University, Madurai – 625 021.	1998	Biotechnology	Highly Commended

## Teaching Experience

Designation & Office Address	Period	
	From	To
Professor, Department of Biotechnology, Alagappa University, Karaikudi 630 003.	12.05.2018	Till Date
Associate Professor, Department of Biotechnology, Alagappa University, Karaikudi 630 003.	12.05.2015	11.05.2018
Assistant Professor (Stage III), Department of Biotechnology, Alagappa University, Karaikudi 630003.	12.05.2012	11.05.2015
Assistant Professor (Stage II), Department of Biotechnology, Alagappa University, Karaikudi 630 003.	12.05.2007	11.05.2011
Lecturer, Department of Biotechnology Alagappa University, Karaikudi 630 003.	12.05.2003	11.05.2007
Lecturer, Department of Biotechnology, Dr. G. R. Damodaran College of Science, Coimbatore – 641 014.	01.06.1999	10.05.2003
Lecturer, Department of Microbiology, K.S.R. College of Arts & Science, Thiruchengode - 637 209.	09.03.1998	06.04.1999

## Areas of Research

- **Genetic Transformation:** Genetic Modification of Food Crops (rice and small millets) for Abiotic Stress Tolerance through *Agrobacterium tumefaciens* mediated transformation.
- *Agrobacterium rhizogenes* mediated transformation of medicinal plants with multipurpose therapeutic uses and selection of superior clones for propagation.
- **Ex situ Conservation:** Conservation of IUCN Red list categories (Endangered, Threatened, Vulnerable, & Least Concern) medicinal plants through micropropagation, encapsulation, molecular marker analysis, and reintroduction.
- **Computational Omics:** Identification of novel unique and Combined Abiotic Stress (CAbS) responsive genes from Crop Species including millets through Omics Approaches.
- **Elicitation:** Enhancement of Commercially Important Phytochemicals in medicinal plants through Biotechnological Approaches (Callus culture, suspension, Hairy Root Culture, & Mutation breeding).

## Academic Awards & Fellowships

1988: Ananthalakshmi Ramulu Iyer Prize for Proficiency in Botany (B.Sc.,)

1988: Narasimha Iyengar Prize for Proficiency in Chemistry and Zoology (B.Sc.,)

1992: National Eligibility Test (NET) for JRF & Lectureship – CSIR&UGC (Ref No.2-10/92- E.U.11/ Dec, 91 dt.05.05.1992/1992)

2017: Eminent Scientist award by Biologix Research & Innovation Centre Pvt. Ltd (BRICPL) India.

2017: Bose Science Society Award, Tamil Nadu Scientific Research Organization (TNSRO)

2018: Alagappa Excellence Award (AEA) for Research (2018) (Certificate, Citation and Gold Medal and Cash award of Rs. 15000)

2020: Vallal Alagappan Research Recognition Award- 2020 for contribution towards the enhancement of the Research Outcome of the University in the form of “h” index.

## Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	11	5
	M.Phil.	03	Nil
Project	PG	68	05
	UG /Others (ADMD)	01	Nil

## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs/ Manuals
86	55	10	150	18

<b>Cumulative impact factor</b>	:	<b>298</b>
<b>h-index</b>	:	<b>26</b>
<b>i10 index</b>	:	<b>56</b>
<b>Total Citations</b>	:	<b>1807 (As of 13.02.2023)</b>

<https://scholar.google.co.in/citations?user=0zYWuf4AAAAJ&hl=en>

Thomson Reuters Researcher ID: P-9021-2017

Scopus Author ID: 8543374000

Google Scholar ID: 5id4ORAAAAAJ

Web of Science ResearcherID: P-9021-2017

Web of Science Researcher ID P-9021-2017

URL: <http://www.researcherid.com/rid/P-9021-2017> ORCID:

<http://orcid.org/000-0002-7969-4935>

Vidwan ID: 65867

## Funded Research Projects

### Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	Rashtriya Uchchatar Shiksha bhiyan. RUSA 2: Theme based research project (4.4.2) in Biological Sciences for Translational Health Research for Plant Systems	01.11. 2022	31.11.2023	Understanding the molecular response of finger millet during drought and salinity stress – A system biology approach	09.80
2.	Rashtriya Uchchatar Shiksha bhiyan. RUSA 2: Theme based research project (4.4.2) in Biological Sciences for Translational Health Research for Plant Systems	28.01. 2019	27.01.2021	Enhanced and sustainable production of high value brain boosting phytochemicals of <i>Bacopa monnieri</i> (L.) Pennell through Hairy Root and Elicitation Technology	10.94
3.	SERB (Science and Engineering Research Board), DST, GOI.	11.07.2013	10.07.2016	Micropropagation of <i>Nilgirianthus ciliatus</i> (Nees) Bremek	15.28
4.	CSIR (Council of Scientific & Industrial Research, New Delhi), Ministry of Science & Technology, GOI.	01.05.2012	31.04.2015	Development of abiotic stress tolerant IR 64 with Stress Associated Protein gene (SAP8) through <i>Agrobacterium</i> -mediated transformation.	24.52
5.	UGC (University Grants Commission, New Delhi), GOI.	01.02.2009	31.01.2012	<i>In vitro</i> selection and <i>Agrobacterium</i> mediated transformation studies for developing drought	12.30

				and salinity tolerant <i>indica</i> rice( <i>Oryza sativa</i> L.)	
6.	UGC (University Grants Commission, New Delhi), GOI.	01.04.2007	31.03.2008	<i>In vitro</i> micropropagation from different explants of <i>Jatropha curcas</i> . L	0.95
7.	DBT (Department of Biotechnology, SPD, New Delhi) Ministry of Science & Technology, GOI.	01.04.2001	31.03.2003	Cultivation of Oyster Mushroom & Processing	9.38

### Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1.	Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy (DAE), Mumbai.	29.09.2020	28.09.2023	Radiation induced enhancement of anticancer triterpenoids of <i>Nilgirianthus ciliatus</i>	25.37

### TNSCST Student Projects – Completed

Title of the project	Amount (Rs. )	Funding Agency	Duration
Standardization & Micropropagation of <i>Bacopa monnieri</i> a Pharmacologically Important Herb	5000	Tamilnadu State Council for Science & Technology (TNSCST) Student Project. M.Sc. Student: R. M. Saravana Kumar. Code: Ag06	March 2004 to October 2004
Development of improved micropropagation protocol for IUCN RED LISTED medicinal shrub of southern Western Ghats, <i>Nilgirianthus ciliatus</i> (Wall. Ex Nees) Bremek	7000	Tamilnadu State Council for Science & Technology (TNSCST) Student Project (Ref: No. TNSCST/SPS/AR/2019- 2020 dt. 18.3.2020) M.Sc. student S. Rajeswari (BS-018)	18 March, 2020 to 30 September, 2020

1.	Rakkammal K, Maharajan T, Shriram R N, Jeevan Ram P S, Ceasar A & <b>Ramesh M</b> (31 January, 2023) Physiological, biochemical and molecular responses of finger millet ( <i>Eleusine coracana</i> L. Gaertn.) genotypes exposed to short term drought stress induced by PEG-6000. <b>South African Journal of Botany</b> (Elsevier) (IF :2.315)
2.	Maharajan T, Ajeesh Krishna TP, Rakkammal K, Ramakrishnan M, Ceasar SA, <b>Ramesh M</b> , Ignacimuthu S(20 January, 2023) Identification of QTL associated with agro-morphological and phosphorus content traits in finger millet under differential phosphorus supply by linkage mapping. <b>Agriculture</b> (MDPI),13,262 <a href="https://doi.org/10.3390/agriculture13020262">https:// doi.org 10.3390/agriculture13020262</a> (IF:3.408).
3.	Maharajan T, Ajeesh Krishna TP, Rakkammal K, R Ceasar A, Ramesh M ( 03 November, 2022) Application of CRISPR/Cas system in cereal improvement for biotic and abiotic stress tolerance. <b>Planta</b> (Springer Nature, Switzerland). 256:106. <a href="https://doi.org/10.1007/s00425-022-04023-w">https://doi.org/10.1007/s00425-022-04023-w</a> (IF: 4.116)
4.	Rakkammal K, Priya, A, Pandian S, Maharajan T, Rathinapriya P, Satish L, Ceasar,S A, Sohn SI and <b>Ramesh M</b> ( October, 2022). Conventional and Omics Approaches for Understanding the Abiotic Stress Response in Cereal Crops— An Updated Overview. <b>Plants</b> (MDPI) 11 (21), 2852. <a href="https://doi.org/10.3390/plants11212852">https://doi.org/10.3390/plants11212852</a> (IF: 3.935).
5.	Jeyasri R,Muthuramalingam P, Adarshan S,Shin H, <b>Ramesh M</b> (November 2022 )Assessing the anti-inflammatory effects of Bacopa-derived bioactive compounds using network pharmacology and in vitro studies. <b>ACS Omega</b> (American Chemical Society) <a href="https://doi.org/10.1021/acsomega.2c05318">https://doi.org/10.1021/acsomega.2c05318</a> (IF:4.132)
6.	Adarshan S,Akassh S, Avinash K, Bharathkumar M,Muthuramalingam P, Shin H, Baskar V, Chen JT, Bhuvanewari V, <b>Ramesh M</b> (10 September, 2022) Cheminformatics and system pharmacology strategies unveils the potential bioactives to combat COVID19. <b>Molecules</b> (MDPI) 27,5955. <a href="https://doi.org/10.3390/molecules27185955">https://doi.org/10.3390/molecules27185955</a> (IF:4.927).
7.	Krishnan R, Muthuramalingam P, Priya AM, Prasanth MI, Krishnasamy G, Mohan C, Muthusamy K, Balamurugan K, Gupta AK, and <b>Ramesh M</b> (16 August, 2022) Expressing OsiSAP8, a Zinc-Finger Associated Protein gene, mitigates stress dynamics in existing elite rice varieties of the ‘Green Revolution’. <b>Sustainability</b> (MDPI)14,10174. <a href="https://doi.org/10.3390/su141610174">https://doi.org/10.3390/su141610174</a> . (IF: 3.251).
8.	Aarthy M, Muthuramalingam P, <b>Ramesh M</b> , Singh SK, (22 August, 2022) Unraveling the multi-targeted curative potential of bioactive molecules against cervical cancer through integrated omics and systems pharmacology approach”. <b>Scientific Reports</b> .12:14245 <a href="https://doi.org/10.1038/s41598-022-18358-7">https://doi.org/10.1038/s41598-022-18358-7</a> (IF:4.996).
9.	Sohn SI, Pandian S,Rakkammal K, Largia MJV, Thamilarasan SK, Balaji S, Zoclanclounon YAB, Shilpha J & Ramesh M (15 August 2022) Jasmonates in Plant Growth and Development and Elicitation of Secondary Metabolites -An Updated Overview", <b>Frontiers in Plant Science</b> doi: <a href="https://doi.org/10.3389/fpls.2022.942789">10.3389/fpls.2022.942789</a> (IF: 6.627).

10.	Rakkammal K, <b>Ramesh M</b> (July 29,2022) Biostimulants and Their Role in Improving Plant Growth under Drought and Salinity". <b>Cereal Research Communications</b> (Springer, Switzerland). <a href="https://doi.org/10.1007/s42976-022-00299-6">https://doi.org/10.1007/s42976-022-00299-6</a> (IF:1.24).
11.	Muthuramalingam P, Jeyasri R,Selvaraj A, Shin H, Chen JT, Satish L, Wu QS & <b>Ramesh M</b> (08 July,2022) Global Integrated Genomic and Transcriptomic Analyses of MYB Transcription Factor Superfamily in C3 Model Plant <i>Oryza sativa</i> (L.) Unravel Potential Candidates Involved in Abiotic Stress Signaling <b>Frontiers in Genetics</b> (Frontiers Media S.A.,Switzerland) <a href="https://doi.org/10.3389/fgene.2022.946834">https://doi.org/10.3389/fgene.2022.946834</a> (IF: 4.772).
12.	Muthuramalingam P, Jeyasri R, Rakkammal K, Satish L, Shamili S, Karthikeyan A, Valliammai A, Priya A, Selvaraj A, Gowri P, Qiang-Sheng Wu, Pandian SK, Hyunsuk Shin; Jen-Tsung Chen, Baskar V, Thiruvengadam M, <b>Ramesh M</b> (07 July, 2022) Multi-Omics and Integrative Approach towards Understanding Salinity Tolerance in Rice: A Review. <b>Biology</b> (MDPI) 11(7), 1022. <a href="https://doi.org/10.3390/biology11071022">https://doi.org/10.3390/biology11071022</a> . (IF:5.007).
13.	Largia MJV, Pandian S, Shilpha J, Chitradevi M, Kavikkuil1 M, Soo-In Sohn, <b>Ramesh M</b> (05, July 2022) Improved in vitro regeneration, genetic fidelity analysis, antioxidant potential, and hairy root induction of <i>Justicia gendarussa</i> Burm. f". <b>Plant Biotechnology Reports</b> (Springer) <a href="https://doi.org/10.1007/s11816-022-00775-9">https://doi.org/10.1007/s11816-022-00775-9</a> . (IF:2.496).
14.	Muthuramalingam P, Shin H, Adarshan S, Jeyasri R, Priya A, Chen JT, <b>Ramesh M</b> (18 March, 2022) Molecular insights into freezing stress in Peach based on Multi-Omics and Biotechnology: An overview. <b>Plants</b> (MDPI) 11:812. doi: <a href="https://doi.org/10.3390/plants11060812">10.3390/plants11060812</a> . (IF:3.935).
15.	Adarshan S, Muthuramalingam P, Jeyasri Lakshmi MA, Sathishkumar R, Pandian SK, Shin H, Chen JT, <b>Ramesh M</b> (08 March,2022) <i>Vitex negundo</i> (L.) derived specialized molecules unveils the multi-targeted therapeutic avenues against COPD: A systems pharmacology approach. <b>Frontiers in Bioscience - Landmark</b> 27(3)087. <a href="http://doi.org/10.31083/j.fbl2703087">http://doi.org/10.31083/j.fbl2703087</a> (IF:4.009).
16.	Shrihastini V, Muthuramalingam P, Adarshan S, Sugitha M, Chen JT, Shin H, <b>Ramesh M</b> (10, December 2021) Plant Derived Bioactive Compounds, Their Anti-Cancer Effects and In Silico Approaches as an Alternative Target Treatment Strategy for Breast Cancer: An Updated Overview. <b>Cancers</b> (MDPI), 13, 6222. <a href="https://doi.org/10.3390/(MDPI)13246222">https://doi.org/10.3390/(MDPI)13246222</a> (IF:6.639).
17.	Sohn SI, Pandian S, Senthil Kumar T, Zoclanclounon YAB, Muthuramalingam P, Shilpha J, Satish L, <b>Ramesh M</b> (30 October 2021) Seed Dormancy and Pre-Harvest Sprouting in Rice – An Updated Overview. <b>International Journal of Molecular Sciences</b> (MDPI), ISSN:1422-0067(IF:5.923).
18.	Vanisri S, Hima BK, Muthuramalingam P, Rama Gopal, Jhansi LV, Varma, N, Anjali C, Satish L, <b>Ramesh M</b> , Sreedhar M (14, September 2021) RNA-Seq based global transcriptome analysis of rice unravels the key players associated with brown planthopper resistance. <b>International Journal of Biological Macromolecules</b> (Elsevier) 191,118- 128. <a href="http://doi.org/10.1016/j.ijbiomac.2021.09.058">http://doi.org/10.1016/j.ijbiomac.2021.09.058</a> . (Impact Factor: 6.953).
19.	Shilpha J, Pandian S, Largia MJV, Sohn S I, & <b>Ramesh M</b> (31, August 2021) Short term storage of <i>Solanum trilobatum</i> L. synthetic seeds and evaluation of

	genetic homogeneity using SCoT markers <b>Plant Biotechnology Reports (Springer,Switzerland)</b> 15:651-661(ISSN:1863-5466). <a href="https://doi.org/10.1007/s11816-021-00709-x">https://doi.org/10.1007/s11816-021-00709-x</a> . (Impact Factor:2.010).
20.	Jeyasri R, Muthuramalingam P, Satish L, Pandian SK, Chen JT, Ahmar S, Wang X, Poblete FM & <b>Ramesh M</b> (19 July, <b>2021</b> ) An Overview of Abiotic Stress in Cereal Crops: Negative Impacts, Regulation, Biotechnology and Integrated Omics <b>Plants</b> (MDPI) 10,1472. <a href="https://doi.org/10.3390/plants10071472">https://doi.org/10.3390/plants10071472</a> . (Impact Factor: 3.935).
21.	Valliammai A, Selvaraj A, Muthuramalingam P, Priya A, <b>Ramesh M</b> , Pandian SK (26 July, <b>2021</b> ) Staphyloxanthin inhibitory potential of thymol impairs antioxidant fitness, enhances neutrophil mediated killing and alters membrane fluidity of methicillin resistant <i>Staphylococcus aureus</i> <b>Biomedicine &amp; Pharmacotherapy</b> (Elsevier) 141111933. ISSN: 0753-3322 (Impact Factor: 6.529).
22.	R, Muthuramalingam P, Satish L, Pandian SK, Chen JT, Ahmar S, Wang X, Poblete FM & <b>Ramesh M</b> (July 19, <b>2021</b> ) An Overview of Abiotic Stress in Cereal Crops: Negative Impacts, Regulation, Biotechnology and Integrated Omics <b>Plants</b> (MDPI) 10,1472. <a href="https://doi.org/10.3390/plants10071472">https://doi.org/10.3390/plants10071472</a> . (IF:3.935).
23.	Jeyasri R, Muthuramalingam P, Satish L, Adarshan Aishwarya Lakshmi M, Pandian SK, Chen JT, Sunny Ahmar, Wang X, Mora-Poblete F & <b>Ramesh M</b> (25 June, <b>2021</b> ) The role of <i>OsWRKY</i> genes in rice when faced with single and multiple abiotic stress, <b>Agronomy</b> (MDPI) Vol 11(7) 1301. (Impact Factor: 3.417).
24.	Chaithanya Lakshmi PV, Narendra Reddy CM, Rathinapriya P, <b>Ramesh M</b> & Srinivas B (21 September, <b>2020</b> ) In vitro seed germination and effect of TDZ and AgNO <sub>3</sub> on high frequency shoot regeneration from <i>Ruellia tuberosa</i> L. using cotyledonary node explants, <b>International Journal of Pharmaceutical Sciences and Research</b> ,12(4),2211- 2224.
25.	Satish L, Rathinapriya P, Muthuramalingam P, Pandian S, Ceasar AS & <b>Ramesh M</b> (December, <b>2020</b> ) Overexpression of <i>Erianthus arundinaceus DREB2</i> Transcription Factor Ameliorates the Salinity and Drought Tolerance in <i>Eleusine coracana</i> Cultivars. <b>Biology &amp; Life Sciences Forum</b> , MDPI (Basel, Switzerland)4, 8. <a href="https://doi.org/10.3390/IECPS2020-08665">https://doi.org/10.3390/IECPS2020-08665</a> .
26.	Selvaraj A, Valliammai A, Muthuramalingam P, Priya A, Suba M, <b>Ramesh M</b> and Pandian SK. (24 November, <b>2020</b> ). Carvacrol targets SarA and CrtM of methicillin- resistant <i>Staphylococcus aureus</i> to mitigate biofilm formation and staphyloxanthin synthesis: An <i>in vitro</i> and <i>in vivo</i> approach. <b>ACS Omega</b> (Impact Factor: 3.512).
27.	Selvaraj A, Valliammai A, Muthuramalingam P, Sethupathy S, Ashwinkumar GS, <b>Ramesh M</b> and Pandian SK. (17 November, <b>2020</b> ). Proteomic and systematic functional profiling unveils citral targeting antibiotic resistance, antioxidant defense and biofilm-associated two- component systems of <i>Acinetobacter baumannii</i> to encumber biofilm and virulence traits. <b>mSystems</b> (Impact Factor: 6.633).
28.	Pandian S, Rakkammal K, Rathinapriya P, Rency AS, Satish L & <b>Ramesh M</b> (13 October, <b>2020</b> ) Physiological and biochemical changes in sorghum under combined heavy metal stress: An adaptive defence against oxidative stress <b>Biocatalysis and Agricultural Biotechnology</b> (Elsevier, Netherlands) <a href="https://doi.org/10.1016/j.bcab.2020.101830">https://doi.org/10.1016/j.bcab.2020.101830</a> .

29.	Rathinapriya P, Sathish L, Pandian S, Rameshkumar R, Balasangeetha M, Rakkammal K & <b>Ramesh M</b> (25 August,2020) The protective effects of polyamines on salinity stress tolerance in foxtail millet ( <i>Setaria italica</i> L.), an important C4 model crop. <b>Physiology and Molecular Biology of Plants</b> (Springer,Switzerland)26(9):1815-1829. <a href="https://doi.org/10.1007/s12298-020-00869-0">doi:10.1007/s12298-020-00869-0</a> . (Impact Factor: 2.391)
30.	Rathinapriya P, Pandian S, Satish L, Rameshkumar R, Rakkammal K, <b>Ramesh M</b> (05 August, 2020) Effects of liquid seaweed extracts in improving the agronomic performance of foxtail millet. <b>Journal of Plant Nutrition</b> (Taylor & Francis, USA) (ISSN: 0190-4167) VOL. 43, NO. 19, 2857–2875 (Impact Factor: 1.707).
31.	Muthuramalingam P, Jeyasri R, Valliammai A, Selvaraj A, Karthika C, Gowrishankar S, Pandian SK & <b>Ramesh M</b> & Jen-Tsung Chen (November, 2020) Global multi-omics and system pharmacological strategy unravel the multi-targeted therapeutic potential of natural bioactive molecules against COVID-19: An in-silico approach. <b>Genomics</b> (Elsevier), Vol:112 (6) 4486 – 4504 (Impact Factor: 6.205).
32.	Muthuramalingam P, Jeyasri R, Selvaraj A, Karutha Pandian & <b>Ramesh M</b> (17 July, 2020) Integrated transcriptomic and metabolomic analyses of glutamine metabolism genes unveil key players in <i>Oryza sativa</i> (L.) to ameliorate the unique and combined abiotic stress tolerance. <b>International Journal of Biological Macromolecules</b> (Elsevier)164,222-231 (Impact Factor: 6.953).
33.	Velsankar K; Preethi R; Jeevan Ram P S; <b>Ramesh M</b> & Sudhahar Sakkarapani (June, 2020) Evaluations of Biosynthesized Ag nanoparticles via <i>Allium Sativum</i> flower extract in biological applications. <b>Applied Nanoscience</b> (Springer,Switzerland) <a href="https://doi.org/10.1007/s13204-020-01463-2">https://doi.org/10.1007/s13204-020-01463-2</a> . (Impact Factor: 3.674).
34.	Muthuramalingam P, Jeyasri R, Kalaiyarasi D, Krishnan SR, Aruni W, Karutha Pandian & <b>Ramesh M</b> (10 April, 2020) Global transcriptome analysis of novel stress associated protein (SAP) genes expression dynamism of combined abiotic stresses in <i>Oryza sativa</i> (L.). <b>Journal of Biomolecular Structure&amp;Dynamics</b> (Taylor&Francis). <a href="https://doi.org/10.1080/07391102.2020.174548">doi:0.1080/07391102.2020.174548</a> . (Impact Factor: 3.310).
35.	Jeyasri R, Muthuramalingam P, Suba V, Chen T-J, <b>Ramesh M</b> (02 April, 2020) Bacopa monnieri and Their Bioactive Compounds Inferred Multi-Target Treatment Strategy for Neurological Diseases: A Cheminformatics and System Pharmacology Approach, <b>Biomolecules</b> (MDPI), 10, 536. <a href="https://doi.org/10.3390/biom10040536">doi:10.3390/biom10040536</a> (Impact Factor: 4. 879).
36.	Saha P S, Sarkar S, Jeyasri R, Muthuramalingm P, <b>Ramesh M</b> , Sumita Jha (26 March, 2020) In vitro propagation phytochemical and neuropharmacological profiles of Bacopa monnieri (L.) Wetttest.: A Review, <b>Plants</b> (MDPI), 9, 411. <a href="https://doi.org/10.3390/plants9040411">doi:10.3390/plants9040411</a> (Impact Factor: 3.935).
37.	Pandian S, Satish L, Shilpha J & <b>Ramesh M</b> (05 April, 2020) Genetic diversity analysis revealsstrong population structure in Sorghum germplasm collection. <b>Proceedings of the National Academy of Sciences, India Section B: Biological Sciences.</b> , India, Sect.B Biol.Sci, Jan – March 2020, 90(1) 179 – 190. <a href="https://doi.org/10.1007/s40011-019-01095-9">doi:10.1007/s40011-019-01095-9</a> (Impact Factor :0.396).
38.	Muthuramalingam P, Jeyasri R, Bharathi RKAS, Suba V, Pandian STK and <b>Ramesh M</b> (06 June, 2019). Global integrated omics expression analyses of

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90.	<b>Ramesh M</b> , Murugiah, and Gupta AK (January, <b>2009</b> ). Efficient plant regeneration from leaf base segments of <i>indica</i> rice, <b>Indian Journal of Experimental Biology</b> [NISCAIR, CSIR, India] 47: 68 – 74 (Impact Factor: 0.934).
91.	<b>Ramesh M</b> , Selvam A and Pandian SK ( <b>2007</b> ). Cytokinin induced multiple shoot induction from node explants of <i>Daemia extensa</i> (Jacq.) R.B – A potentially important medicinal plant. <b>Asian Journal of Bioscience</b> 2(1): 18 – 21.
91	<b>Ramesh M</b> , Marx R, Mathan G and Pandian SK (May, <b>2009</b> ). Effect of bavistin on <i>in vitro</i> plant conversion from encapsulated uninodal microcuttings of micropropagated <i>Bacopa monnieri</i> (L.) – An ayurvedic herb. <b>Journal of Environmental Biology</b> [Triveni Enterprises, Lucknow (India) 30(3):441-444 (Impact Factor: 1.359).
92	<b>Ramesh M</b> and Gupta AK ( <b>2006</b> ). Genetic transformation of embryogenic callus cultures of <i>indica</i> rice using particle bombardment and selection of stably transformed hygromycin resistant plants. <b>Asian Journal of Microbiology, Biotechnology and Environmental Science</b> [Scientific Publishers, India; ISSN: 0972-3005] 8(3):617–622.
93	<b>Ramesh M</b> , Saravanakumar RM and Pandian SK ( <b>2006</b> ). Benzyl amino purine and Adenine sulphate induced rapid multiple shoot and root induction from nodal explants of brahmi { <i>Bacopa monnieri</i> (L.) Wettst}. <b>Natural Product Radiance</b> [NISCAIR, CSIR, India] 5(1):44– 51.
94	<b>Ramesh M</b> and Gupta AK (July, <b>2005</b> ). Assessment of transient expression of $\beta$ - <i>glucuronidase</i> gene in callus cultures after different stages of cobombardment. <b>African Journal of Biotechnology</b> [Academic Journals] 4(7):596–600 (Impact Factor: 0.573).

### Chapters in Books: 19

1.	Largia MJV, Shilpha J, Satish L, Kumara Swamy M & <b>Ramesh M</b> (01January <b>2023</b> ). Elicitation: An Efficient Strategy for Enriched Production of Plant Secondary Metabolites. In: <b>Phytochemical Genomics</b> , Swamy, M.K., Kumar, A. (eds) ,Springer Singapore, pp 477-497. <a href="https://doi.org/10.1007/978-981-19-5779-6_17">https://doi.org/ 10.1007/978-981-19-5779-6_17</a> .
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2.	Shilpha J, Largia MJV, Ramesh Kumar R, Satish L, Kumara Swamy M & <b>Ramesh M</b> (01January <b>2023</b> ). Hairy Root Cultures: A Novel Way to Mass Produce Plant Secondary Metabolites.In: <b>Phytochemical Genomics</b> , Swamy, M.K., Kumar, A. (eds) ,Springer Singapore, pp 417-445. <a href="https://doi.org/10.1007/978-981-19-5779-6_17">https://doi.org/ 10.1007/978-981-19-5779-6_17</a> .
3.	Babu GA, Christas KM, Kowsalya E, <b>Ramesh M</b> (June, 2022) Improved Sterilization Techniques for Successful In Vitro Micropropagation. In: <b>Commercial Scale Tissue Culture for Horticulture and Plantation Crops</b> (pp 1-21) doi: 10.1007/978-981-19-0055-61Publisher: Springer, Singapore
4.	Lakkakula Satish & <b>Ramesh M</b> et al (October 08,2021) Metabolic engineering strategies to enhance the production of anti-cancer drug, Paclitaxel. In: <b>"Paclitaxel: Botany, Chemistry, Biotechnology and Anticancer activities"</b> by Pullaiah T. and Swamy MK . Publisher: Elsevier Inc.
5.	Moola AK, Balasubramanian P, Satish L, Shamili S, <b>Ramesh M</b> , Senthil Kumar T & Ranjitha Kumari B.D. (22 February, <b>2021</b> ) Hairy roots as a source for phytoremediation. In: <b>Strategies and tools for pollutant mitigation: Avenues to a clean Environment</b> , Edited by Aravind J, Kamaraj M, Prasanthi Devi M and Raja Kumar S (ISBN 978-3-030 63574-9) 29-48. Online: 25 March 2021, Publisher: Springer, Switzerland.
6.	Shilpi N, Moola AK, Satish L, Shalini A, Rawat CD, <b>Ramesh M</b> , Senthil Kumar T, Rangitha Kumari BD( January, <b>2021</b> ) Advances in Genetically Modified Plants by Employing Modern Biotechnological Tools: An Update In: Policy Issues in Genetically Modified Crops Global Policies and Perspectives. <a href="https://doi.org/10.1016/B978-0-12-820780-2.00022-4">https://doi.org/10.1016/ B978-0-12-820780-2.00022-4</a>
7.	Pandian S, Rakkammal K, Rency AS, Muthuramalingam P, Pandian SK & <b>Ramesh M</b> ( <b>2020</b> ) Abiotic stress and applications of Omics approaches to develop stress tolerance in Agronomic crops. In: <b>Agronomic Crops</b> , Vol 3: Stress responses and Tolerance, Editor: M. Hasanuzzaman, ISBN 978-981-15-0024-4, <a href="https://doi.org/10.1007/978-981-15-0025-1">https://doi.org/10.1007/978-981-15-0025-1</a> 26. Springer Nature Singapore Pvt Ltd. 2020. pp:557 – 578.
8.	Pandian S and <b>Ramesh M</b> (14 February, <b>2020</b> ) Development of pesticide resistance in pests: A key challenge to the crop protection and environmental safety. In: <b>Pesticides in Crop Protection: Physiological and Biochemical Action</b> . Editor: Prabhat Kumar Srivastava, ISBN 9781119432197. 2020 John Wiley & Sons Ltd, USA. pp 1-13.
9.	Muthuramalingam P, Jeyasri R, Krishnan SR, Pandian SK, Sathishkumar R, <b>Ramesh M</b> (25 November, <b>2019</b> ) Integrating the Bioinformatics and Omics Tools for Systems Analysis of Abiotic Stress Tolerance in <i>Oryza sativa</i> (L.) In: <b>Advances in Plant Transgenics: Methods and Applications</b> (Springer) pp:59 – 77.
10	Muthuramalingam P, Jeyasri R, Krishnan SR, Pandian SK, Sathishkumar R and <b>Ramesh M</b> (25 November, <b>2019</b> ). Integrating Bioinformatics and Omics tools for systems analysis of abiotic stress tolerance in <i>Oryza sativa</i> (L.). In: <b>Advances in Plant Transgenics: Methods and Applications</b> . ISBN 978-981-13-9623-6, doi.org/10.1007/978-981-13-9624-3 Springer Nature. pp: 59 – 78.

11	Satish L, Rency AS, Rameshkumar R, Swamy MK, <b>Ramesh M</b> (October <b>2019</b> ) "Transgenic Plant Cell Cultures: A Promising Approach for Secondary Metabolite Production" <b>In: Natural Bio-active Compounds</b> , Volume 3, Biotechnology, Bioengineering, and Molecular Approaches, ISBN: 978-981-13-7437- 1, doi: 10.1007/978-981-13-7438-8. Editors: Akhtar, Mohd Sayeed, Swamy, Mallappa Kumara (Eds.) Springer Nature Singapore Pte Ltd. pp: 79 - 122.
12	Rency AS, Pandian S,Rakkammal K, Satish L, Swamy MK and <b>Ramesh M</b> (October <b>2019</b> ) "Hairy root cultures as an alternative source for the production of high - value secondary metabolites". <b>In: Natural Bio-active Compounds</b> , Volume 3, Biotechnology, Bioengineering, and Molecular Approaches, ISBN: 978-981-13-7437- 1, doi: 10.1007/978-981-13-7438-8. Editors: Akhtar, Mohd Sayeed, Swamy, Mallappa Kumara (Eds.) Springer Nature. pp: 237- 264.
13	Muthuramalingam P, Radhesh Krishnan S, Deepak Kumar V and <b>Ramesh M</b> (18 December, <b>2018</b> ) Technological Development for Abiotic Stress in Rice: A Critical Overview. <b>In: Rice Science - Biotechnological and Molecular Advancements</b> . pp 69-91. ISBN: 978-1-351- 13658-7(eBook) Edited by Deepak Kumar Verma, Prem Prakash Srivastav and Nadaf Altafhusain Balechand. Apple Academic Press, USA & CRC Press, a Taylor and Francis Group.pp:69 - 92.
14	Radhesh Krishnan S, Muthuramalingam P, Chakravarthi M and <b>Ramesh M</b> (18 December, <b>2018</b> ) Emerging Trends of A20/AN1 Zinc-finger Proteins in Improving Rice Productivity under Abiotic Stress. <b>In: Rice Science - Biotechnological and Molecular Advancements</b> . pp 03-27. ISBN: 978-1-351-13658-7(eBook) Edited by Deepak Kumar Verma, Prem Prakash Srivastav and Nadaf Altafhusain Balechand. Apple Academic Press, USA & CRC Press, a Taylor and Francis Group.pp:3 - 28.
15	Radhesh Krishnan S, Muthuramalingam P, Sivamaruthi BS, Chakravarthi M and <b>Ramesh M</b> (17 September, <b>2018</b> ). "Genetic Engineering for Fragrance in Rice: An Insight on Its Status" <b>In: Science and technology of Aroma, Flavor and Fragrance in Rice</b> . ISBN 13: 978-0-203- 71145-3(eBook).. Edited by Deepak Kumar Verma and Prem Prakash Srivastav. Apple Academic Press, USA & CRC Press, a Taylor and Francis Group. pp 295- 320.
16	Muthuramalingam P, Jeyasri R, Kalaiyarasi D, Pandian S, Krishnan SR, Pandian SK and <b>Ramesh M</b> (28 March, <b>2018</b> ) Emerging advances in computational omics tools for systems analysis of Gramineae Family grass species and their abiotic stress responsive function. <b>In: Omics Based Approaches in Plant Biotechnology</b> . Wiley, Scrivener Publishing Group.pp:185 -216.
17	Satish L, <b>Ramesh M</b> (01 September, <b>2017</b> ) Algae based extracts as a natural biostimulant for plant growth and development: Current and future prospects. <b>In:Photobioreactors: Advancements, Applications and Research</b> .ISBN:978-1-53612-354-8. Nova Science Publishers, New York, USA. (Eds., Yiu FaiTsang).

18	Satish L and <b>Ramesh M</b> (15 July, 2017). Potential of Marine Algae Derived Extracts as a Natural Biostimulant to Enhance Plant Growth and Crop Productivity, p200-211. <b>In: Biotechnology for Sustainability, Achievements, Challenges and Perspectives.</b> Edited by S. Bhore, K. Marimuthu and M. Ravichandran, Published by AIMST University, ISBN: 978-967- 14475- 3-6.
19	Shilpha J, Satish L and <b>Ramesh M</b> (2017) "Recent Advancements in the Clinical Evaluation of Plant-Derived Anticancer Compounds. <b>In: Anticancer Plants Clinical Trials and Nanotechnology</b> , Vol: 3, p 232- 252. ISBN 978-981-10-8215-3. Edited by M S Akthar and M K Swamy. Springer Nature Singapore Pte Ltd.), DOI: 10.1007/978-981-10-8216-0_8.

### Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 4

### Membership in Professional Bodies

1. Life Member: Society of Biological Chemists, India (1740).
2. Life Member: The Indian Science Congress Association, India (L.14559).
3. Life Member: Proteomics Society, India (Reg No.127).
4. Life Member: Biotech Research Society, India (LM 1667).
5. Life Member: Bose Science Society, Tamilnadu Scientific Research Organization (M 300/BSS/ 2017).
6. Life Member: The Indian Botanical Society (135).
7. Life Member: National Academy of Biological Sciences (NABS), India (LM 045-18).
8. Member: International Natural Product Science Taskforce (INPST).

### Editorial Membership

1. Academic Editor - International Journal of Plant & Soil Science (ISSN:2320-7035).
2. Advisory Board Member - Medicinal Plants - International Journal of Phytomedicines & Related Industries (ISSN: 0975-4261).
3. Editorial Board Member - Science Domain International - An Open Peer Reviewed Journal in Science, Technology & Medicine (www.sciencedomain.org).
4. Editorial Committee Member (ECM) - Indian Journal of Natural Sciences (IJNS) ISSN: 0976- 0997, NAAS rated score: 3.56, MJL Thomson Reuters, USA (since 23 January 2017)
5. Advisory Board Member of Namadhu Ariviyal, a Science Awareness Tamil Monthly
6. Editorial Board Member - Journal of Agriculture Food and Development Online- ISSN No: 2415-0142.

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

1. Member of the Board of Studies in B.Sc., Biotechnology, Alagappa University, since May2012.
2. Member of the Board of Studies in M.Sc., Biotechnology, Alagappa University,

Since March,2003.

3. Member of the Board of Studies in M.Phil., Biotechnology, Alagappa University, Since July,2013.
4. Member of the Board of Studies in M.Sc., Botany of Affiliated Colleges of Alagappa University, Since December, 2011.
5. Member of the Board of Studies in B.Sc., Biochemistry, Alagappa University, Since May,2011.
- 6 Member of the Board of Studies in B.Sc., Zoology (Animal Biotechnology) of Affiliated
7. Colleges of Alagappa University, Since February, 2009.
8. Member of the Board of Studies in B.Sc., and M.Sc., Biotechnology, SNR College, Coimbatore,Since June 2013.
9. Deputy Coordinator of Intellectual Property Rights Cell, Alagappa University (2013 –2016).
10. Member of the Board of Studies in U.G. and P.G. Biotechnology of J.J. College of Arts and Science, Pudukkottai, Since February 2019.
11. Examination Squad member- AU Colleges, November 11, 2019.
12. Member of the Board of Studies in M.Sc., Biotechnology, Madura College (2021)
13. Member of the Board of Studies in M.Sc., Biotechnology, Madura College (2022)
14. Member of the Board of Studies in M.Sc., Botany, Bharathidasan University (2021 - 2022)

#### **Additional Academic Responsibilities:**

- i. HOD In-Charge-Department of Botany, Alagappa University (22.11.2019 – 31.06.2022).
- ii. Member of the Standing Committee on Academic Affairs (SCAA) under Section 24(2) (a) Clause II of the Alagappa University Act 1985, with effect from 30.06.2018.
- iii. Department level SWAYAM & NAD Coordinator for M.Sc. Biotechnological Students and Students of Govt. Arts College, Tiruvadana (From June 2017 to November 2019).
- iv. Coordinator, Centre for Youth Welfare and Empowerment, Alagappa University (From September 2018 – September 2019).

#### **Expert / Inspection /Assessment Committee Member:**

- i. Subject Expert for the interview committee for recruiting Lecturer in Botany at P.T.M.T.M. College, Kamuthi (2009).
- ii. Village Placement Program Coordinator (2005, 2008, 2012, 2014).
- iii. Assessment Committee Member to assess the work of A. Kalaiarasi for the upgradation of JRF to SRF under the Rajiv Gandhi National Fellowship scheme (2009).
- iv. Expert Committee Member to assess the academic and infrastructural

facilities for recommending affiliation of M.Sc., Botany Programme to Department of Botany, Alagappa Govt. Arts College, Karaikudi (2011).

- v. Inspection Committee member to assess the infrastructure and expertise available at the Department of Botany, Alagappa Arts College, Karaikudi for recognition as an Approved Research Centre of Alagappa University (2011).
- vi. Expert Committee Member to assess the Course contents of Botany, Samacheer Kalvi Subjects Workshop held at Alagappa Matriculation Higher Secondary School, Karaikudi (2011).
- vii. Inspection Committee member to assess the infrastructure and expertise available at the Department of Botany, Pasumpon Thiru Muthuramalinga Thevar Memorial College, Kamuthi (2012).
- viii. DBT outside External Expert in IBSC (Institutional Biosafety Committee) for DST Project at Ayya Nadar Janaki Ammal College (2013).
- ix. Inspection Committee Member for recognition of Approved Research Centre for Botany in Affiliated Colleges of Alagappa University (2013).
- x. Member of the Inspection Squad for Alagappa University Examinations of Affiliated Colleges of Alagappa University (2015).
- xi. Inspection Committee member to inspect the academic and infrastructural facilities for the grant of affiliation of B.Sc. Biotechnology Programme, Vidhyaa Giri College of Arts and Science, Puduvayal (2017).
- xii. Acted as a reviewer to assess the DBT (GoWB - West Bengal Govt) proposal entitled "DNA Fingerprint of fresh leaves of medicinal plants by random amplified polymorphic DNA (RAPD) – PCR Method for Authentication" (2017).
- xiii. Member of Doctoral Committee for the Biotechnology Ph.D., Student Mr. Rajinikanth Garapati (Guide: Dr. M. Ramesh) of JJ College Pudukkottai (2012).
- xiv. Member of Doctoral Committee for the Microbial Biotechnology Ph.D., Student Ms. B. Thazeem (Guide: Dr K. Preethi) of Bharathiar University, Coimbatore (2016).
- xv. Doctoral committee External Expert member for the Biotechnology student Mr. M. Saravanan (Guide: Dr.K. Sathish Kumar) of Bharathiar University, Coimbatore (2017).
- xvi. Member of the Advisory Committee and Plenary Speaker at the International Conference on Innovative and Emerging Trends in Botany (ICIETB 2019)

organized by the Dept. of Botany, Alagappa University (November 2019).

- xvii. Examination Squad member- AU Colleges (2019).
- xviii. TANSCH Expert Committee member to give equivalence to B.Sc. and M.Sc. Plant Biology and Biotechnology courses are offered by Bharathidasan and Bharathiar University (2019).
- xix. DRC Member to Mr. Raja (Guide: Dr. Hema Jagadesan), PSG College of Technology, Coimbatore (2020).
- xx. Inspection Committee member to recognize N. Ramavarier Ayurveda Foundation, Madurai for recognizing the Department of Biotechnology as a Research Centre of Alagappa University (2020).
- xxi. Subject Expert to scrutinize the applications for Research Guides in Botany (MKU) (27.07.2021).
- xxii. Doctoral committee External Expert member for the Biotechnology student Ms. T.M.Shivani (Guide: Dr. Mythili) of VIT, Vellore(2020, 2022).

### Reviewer:

Reviewer for Journals such as Frontiers In Plant Science, PLOS ONE, Applied Biochemistry and Biotechnology (Springer, US), Plant Cell Tissue and Organ Culture (Kluwer academic Publishers, Netherlands), Journal of Environmental Biology (Lucknow, India), Journal of Biotechnology (Elsevier, Germany), Acta Physiologiae Plantarum (Springer, Poland), Trees (Springer, Germany), Indian Journal of Experimental Biology (NISCAIR, CSIR, India), Rice Science (Elsevier, China), Journal of Medicinal Plants Research (Academic Journals), Natural Product Radiance (CSIR, NISCAIR, India), Maejo International Journal of Science and Technology (Japan), Agricultural Science Research (Saudi Arabia), Physiology and Molecular Biology of Plants (Springer, India), Journal of Applied Phycology (Springer, Netherlands), Rice Science, Gene Reports, Journal of Biotechnology and Molecular Biology, 3Biotech (Springer India), Flavour and Fragrance, Springer Plus, Plant Cell Biotechnology and Molecular Biology, Pharmaceutical Biology (Taylor & Francis), Physiology and Molecular Biology of Plants, BMC Genomics, Plant Cell Biotechnology and Molecular Biology, Genome, Horticultural science, Biologia, Planta, The Journal of Horticultural Science and Biotechnology, *In vitro* Cell & Developmental Biology- Plant.

### Others

1. Number of Invited / Special Lectures delivered: 48
2. No. of PhD Thesis evaluated: 24
3. No. of PhD Public Viva Voce Examination conducted: 20
4. Novel unique, combined abiotic stress (CAbs) and combined abiotic stress transcription factor genes identified: 364

## POPULAR ARTICLES IN REGIONAL LANGUAGES

1. M Ramesh (2019) Published an article entitled “Biotechnology- Challenges and Achievements” in Namadhu Ariviyal, a Science Awareness Tamil Monthly. Vol:1, Issue :1, March 2019, pp:8-10

## ABSTRACT PUBLISHED IN JOURNALS:

1. Muthuramalingam P, Pandian SK and **Ramesh M.** (2017). Global proteomic perspective and identification of abiotic stress responsive proteins in rice: An *in-silico* approaches. **Journal of Proteins and Proteomics**. 8, ISSN: 0975 – 8151. (Impact Factor – **1.0**; NAAS – **4.55**)
2. Muthuramalingam P, Jeyasri R, Pandian SK and **Ramesh M.** (2018). Regulatory network analysis of rice MYB transcription factor family proteins: A systems biology perspective. **Journal of Proteins and Proteomics**. 9, ISSN: 0975 – 8151. (Impact Factor – **1.0**; NAAS – **4.55**)

## PROCEEDINGS:

- Rameshkumar R, Satish L, Rathinapriya P, Sasireka S, Dharmarajan S, **Ramesh M (2017)** Lab to land conservation of IUCN – red listed, vulnerable Indian medicinal plant (*Nilgiranthus ciliatus*) from possible extinction. In: Proceedings of the International Conference on Herbal and Natural Components as the Future of Pharmacology and the Annual Meet of the National Society of Ethnopharmacology pp. 488 – 493 (ISBN: 978-93-84234-04-1)

**Faculty Profile as of 13 February, 2023**