



**Dr. M. RAMESH**

**Professor**

### Contact

|                        |   |                                                                                                                                                                                                                                                                       |
|------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| Website                | : | <a href="https://www.alagappauniversity.ac.in/academics/faculty-of-science/school-of-biological-sciences/department-of-biotechnology">https://www.alagappauniversity.ac.in/academics/faculty-of-science/school-of-biological-sciences/department-of-biotechnology</a> |

### Academic Qualifications

| Degree  | Institution                                                                                                         | Year | Branch                                       | Class   |
|---------|---------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------|---------|
| Ph.D.   | Centre for Plant Molecular Biology,<br>School of Biotechnology<br>Madurai Kamaraj University,<br>Madurai – 625 021. | 1998 | Biotechnology                                | Awarded |
| M.Phil. | School of Energy Sciences<br>Madurai Kamaraj University,<br>Madurai – 625 021.                                      | 1992 | Energy,<br>Environment &<br>Natural Sciences | I       |
| M.Sc.   | School of Biological Sciences,<br>Madurai Kamaraj University,<br>Madurai – 625 021.                                 | 1990 | Biology                                      | I       |
| B.Sc.   | The Madura College (Autonomous),<br>Madurai.                                                                        | 1987 | Botany, Zoology,<br>Chemistry                | I       |

## Teaching Experience: 26 Years

| Position                           | Institution                                                                                    | Duration                       |
|------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------|
| Professor                          | Department of Biotechnology<br>Alagappa University,<br>Karaikudi 630 003.                      | 12.05.2018<br>to<br>Till Date  |
| Associate Professor                | Department of Biotechnology<br>Alagappa University,<br>Karaikudi 630 003.                      | 12.05.2015<br>to<br>11.05.2018 |
| Assistant Professor<br>(Stage III) | Department of Biotechnology<br>Alagappa University,<br>Karaikudi 630 003.                      | 12.05.2011<br>to<br>11.05.2015 |
| Assistant Professor<br>(Stage II)  | Department of Biotechnology<br>Alagappa University,<br>Karaikudi 630 003.                      | 12.05.2007<br>to<br>11.05.2011 |
| Lecturer                           | Department of Biotechnology<br>Alagappa University,<br>Karaikudi 630 003.                      | 12.05.2003<br>to<br>11.05.2007 |
| Lecturer                           | Department of Biotechnology<br>Dr. G. R. Damodaran College of Science<br>Coimbatore – 641 014. | 01.06.1999<br>to<br>10.05.2003 |
| Lecturer                           | Department of Microbiology<br>K.S.R. College of Arts & Science<br>Tiruchengode – 637 209.      | 09.03.1998<br>to<br>06.04.1999 |

## Research Experience: 26 Years

## Academic and Additional Responsibilities

| S. No | Position           | University Bodies                                                                                                              | Period          |                 |
|-------|--------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
|       |                    |                                                                                                                                | From            | To              |
| 1     | Head In-charge     | Department of Botany<br>Alagappa University, Karaikudi.                                                                        | 22.11.2019      | 31.05.2022      |
| 2     | Member             | Standing Committee on Academic Affairs (SCAA) under Section 24(2) (a) Clause II of the Alagappa University Act 1985.           | 2018            | 2021            |
| 3     | Coordinator        | Centre for Youth Welfare and Empowerment, Alagappa University, Karaikudi.                                                      | September, 2018 | September, 2019 |
| 4     | Coordinator        | Department level SWAYAM & NAD Coordinator for M.Sc. Biotechnological Students and Students of Govt. Arts College, Tiruvadanai. | June 2017       | November 2019   |
| 5.    | Deputy Coordinator | Intellectual Property Rights Cell<br>Alagappa University, Karaikudi.                                                           | 2013            | 2016            |

## Areas of Research

- **Genetic Transformation:** Genetic Modification of Food Crops (rice and small millets) for Abiotic Stress Tolerance through *Agrobacterium tumefaciens* mediated transformation.
- Development of superior genotypes / chemotypes of Indian medicinal plants with elevated levels of phytochemicals through *Agrobacterium rhizogenes* mediated transformation 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, low temperature storage, molecular marker analysis, and reintroduction.
- **Computational Omics:** Identification of novel unique and Combined Abiotic Stress (CAbS) responsive genes from Crop plants through Omics Approaches.
- **Elicitation:** Enhancement of Commercially Important Phytochemicals in Indian medicinal plants through Biotechnological Approaches (Callus culture, Suspension culture, Hairy Root Culture, & Mutation breeding).

## Research Supervision / Guidance

| Program of Study |                   | Completed | Ongoing |
|------------------|-------------------|-----------|---------|
| Research         | PDF               | 01        | NIL     |
|                  | Ph.D.             | 12        | 04      |
|                  | M.Phil.           | 03        | NIL     |
| Project          | PG                | 64        | 04      |
|                  | UG / Others ADMD) | 03        | NIL     |

## Publications

| International |             | National |             | Others                                  |
|---------------|-------------|----------|-------------|-----------------------------------------|
| Journals      | Conferences | Journals | Conferences | Books / Chapters / Monographs / Manuals |
| 96            | 57          | 10       | 166         | 21                                      |

**Cumulative Impact Factor** : 361.50 (Average IF: 3.40)  
**h-index** : 34  
**i10 index** : 78  
**Total Citations** : 2891 (Up to 18 October,2024)  
<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 Researcher ID:** P-9021-2017

**AD Scientific Index ID:** 292305

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

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

**Vidwan ID:** 65867

### Funded Research Projects

#### Ongoing Projects: 1

| S. No | Agency                                                                                                                                                        | Period     |            | Project Title                                                                                              | Budget (Rs. In lakhs) |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------------------------------------------------------------------------------------------------------|-----------------------|
|       |                                                                                                                                                               | From       | To         |                                                                                                            |                       |
| 1.    | Rashtriya Uchchatar Shiksha bhiyan. RUSA 2.0: Theme based research project (4.4.2) in Biological Sciences for Translational Health Research for Plant Systems | 01.11.2022 | 31.12.2024 | Physiological, Biochemical and Molecular analysis in Finger millet under Drought and Salt stress condition | 09.80                 |

#### Completed Projects: 9

| 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), Govt. of India, Mumbai. | 11.09.2020 | 10.09.2023 | Radiation induced enhancement of anticancer triterpenoids of <i>Nilgiranthus ciliatus</i>                                                                               | 25.37                 |
| 2.    | RUSA 2.0: Entrepreneur in residence (EIR) sponsored research Project                                     | 2022       | 2023       | Enhanced Squalene and Scopoletin production in hairy root cultures of <i>Evolvulus alsinoides</i> via <i>Agrobacterium rhizogenes</i> – mediated genetic transformation | 2.0                   |
| 3.    | RUSA 2.0: Entrepreneur in residence (EIR) sponsored research Project                                     | 2022       | 2023       | Identification of elite accessions of <i>Nilgiranthus ciliatus</i> (Nees) for <i>in vitro</i> multiplication and encapsulation for sustainable use                      | 2.0                   |

|    |                                                                                                                                                                               |            |            |                                                                                                                                                              |       |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 4. | Rashtriya Uchchatar Shiksha Abhiyan (RUSA) Centrally Sponsored Scheme. RUSA 2: TBRP in Biological Sciences for Translational Health Research for Human, Animal & Plant System | 28.01.2019 | 27.01.2021 | Enhanced and sustainable production of high value brain boosting phytochemicals of <i>Bacopa monnieri</i> (L.) through Hairy Root and Elicitation Technology | 10.94 |
| 5. | Science Engineering and Research Board ( <b>SERB</b> ) Department of Science & Technology, New Delhi.                                                                         | 11.07.2013 | 10.07.2016 | Micropropagation and reintroduction of endangered medicinal plant <i>Nilgiranthus ciliatus</i> (Nees) Bremek.                                                | 15.28 |
| 6. | Council of Scientific and Industrial Research ( <b>CSIR</b> ), New Delhi.                                                                                                     | 26.04.2012 | 31.03.2015 | Development of abiotic stress tolerant <i>indica</i> rice lines (IR 64) with Stress Associated Protein gene through Agrobacterium - mediated transformation  | 24.52 |
| 7. | University Grants Commission( <b>UGC</b> )                                                                                                                                    | 01.04.2007 | 31.03.2009 | <i>In vitro</i> micropropagation from different explants of <i>Jatropha curcas</i> . L                                                                       | 0.95  |
| 8. | University Grants Commission( <b>UGC</b> )                                                                                                                                    | 01.02.2009 | 31.01.2012 | <i>In vitro</i> selection and <i>Agrobacterium</i> – mediated transformation studies for developing drought and salinity tolerant <i>indica</i> rice         | 12.30 |
| 9. | Department of Biotechnology ( <b>DBT</b> ), SPD, New Delhi) Ministry of Science & Technology, GOI                                                                             | 01.04.2001 | 31.03.2003 | Cultivation of Oyster Mushroom & Processing                                                                                                                  | 9.38  |

#### Other Projects Received as Research Mentor: 2

| S. No | Agency                                                                                                                                                  | Period     |              | Project Title                                                                                                                                                          | Budget (Rs.) |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|       |                                                                                                                                                         | From       | To           |                                                                                                                                                                        |              |
| 1.    | Tamilnadu State Council for Science & Technology (TNSCST) Student Project (Ref: No. TNSCST/SPS/AR/ 2019- 2020 dt. 18.3.2020) Ms. S. Rajeswari (BS- 018) | 18.03.2020 | 30.09.2020   | Development of improved micro- propagation protocol for IUCN RED LISTED medicinal shrub of southern Western Ghats, <i>Nilgiranthus ciliatus</i> (Wall. Ex Nees) Bremek | 7000         |
| 2.    | Tamilnadu State Council for Science & Technology (TNSCST) Student Project. R. M. Saravana Kumar. Code: Ag06                                             | March 2004 | October 2004 | Micropropagation of <i>Bacopa monnieri</i> - A Pharmacologically Important Herb                                                                                        | 5000         |

## Distinctive Achievements / Awards

| Year | Name of the Award /Achievement                                                                                                                   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 2024 | Certificate of Merit for Academic and Research excellence during the academic year 2023 – 2024 (05.09.2024)                                      |
| 2023 | Appreciation award for outstanding academic and Research excellence in acquiring the projects during the academic years 2021 – 2023 (05.09.2023) |
| 2020 | Vallal Alagappan Research Recognition Award for contribution towards the enhancement of Research Outcome of the University (05.09.2020)          |
| 2018 | Alagappa Excellence Award (AEA) for Research (2018) (Certificate, Citation and Gold Medal and Cash award of Rs. 15000)                           |
| 2017 | Eminent Scientist award by Biologix Research & Innovation Centre Pvt. Ltd (BRICPL) India.                                                        |
| 2017 | Bose Science Society Award, Tamil Nadu Scientific Research Organization (TNSRO)                                                                  |
| 1992 | National Eligibility Test (NET) for JRF & Lectureship – CSIR&UGC (Ref No.2-10/92-E.U.11/ Dec, 1991 dt.05.05.1992)                                |
| 1988 | Narasimha Iyengar Prize for Proficiency in Chemistry & Zoology (B.Sc.), Madura College.                                                          |
| 1988 | Ananthalakshmi Ramulu Iyer Prize for Proficiency in Botany (B.Sc.), Madura College.                                                              |

## Events Participated

**Number of Conferences / Seminars / Workshops: 208**

**Professional Bodies:**

| S. No. | Membership Type | Organization Name                                                 |
|--------|-----------------|-------------------------------------------------------------------|
| 1.     | Life Member     | Society of Biological Chemists, India.                            |
| 2.     | Life Member     | The Indian Science Congress Association (L.14559)                 |
| 3.     | Life Member     | Proteomic Society of India.                                       |
| 4.     | Life Member     | Biotech Research Society of India (LM 1667)                       |
| 5.     | Life Member     | Bose Science Society, Tamilnadu Scientific Research Organization  |
| 6.     | Life Member     | The Indian Botanical Society                                      |
| 7.     | Life Member     | National Academy of Biological Sciences (NABS), India (LM 045-18) |
| 8.     | Member          | International Natural Product Science Taskforce (INPST)           |

**Advisory Board:**

| Year / Period                     | Name of the BoS / Administrative Committee / Academic Committee | Role   |
|-----------------------------------|-----------------------------------------------------------------|--------|
| <b>BOS in Alagappa University</b> |                                                                 |        |
| 2003 - 2023                       | Board of Studies in M.Sc., Biotechnology, Alagappa University   | Member |

|                                 |                                                                                                                                                                                           |                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| May, 2013                       | Board of Studies in M.Phil. Biotechnology, Alagappa University.                                                                                                                           | Member                                      |
| May, 2012                       | B.Sc., Biotechnology, Alagappa University.                                                                                                                                                | Member                                      |
| May 2011                        | Board of Studies in B.Sc., Biochemistry, Alagappa University.                                                                                                                             | Member                                      |
| December, 2011                  | Board of Studies in M.Sc., Botany of Affiliated Colleges of Alagappa University                                                                                                           | Member                                      |
| 2009                            | B.Sc., Zoology (Animal Biotechnology) of Affiliated Colleges of Alagappa University.                                                                                                      | Member                                      |
| <b>Administrative Committee</b> |                                                                                                                                                                                           |                                             |
| 2021                            | Subject Expert to scrutinize the applications for Research Guideship in Botany (MKU)                                                                                                      | Subject Expert                              |
| 2020                            | To recognize N. Ramavarier Ayurveda Foundation, Madurai as a Research Centre of Alagappa University.                                                                                      | Inspection Committee member                 |
| 2019                            | TANSCH Expert Committee member to give equivalence to B.Sc. and M.Sc. Plant Biology and Biotechnology courses offered by various Universities.                                            | Expert Committee member                     |
| 2017                            | 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.                | Inspection Committee member                 |
| 2013                            | DBT Expert in IBSC (Institutional Biosafety Committee) for DST Project at Ayya Nadar Janaki Ammal College.                                                                                | Outside External Expert                     |
| 2013                            | Inspection Committee Member for recognition of Approved Research Centre for Botany in Affiliated Colleges of Alagappa University.                                                         | Inspection Committee Member                 |
| 2011                            | To assess the Course contents of Botany, Samacheer Kalvi Subjects Workshop held at Alagappa Matriculation Higher Secondary School, Karaikudi.                                             | Expert Committee Member                     |
| 2011                            | 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. | Inspection Committee member                 |
| 2011                            | To assess the academic and infrastructural facilities for recommending affiliation of M.Sc., Botany Programme to Department of Botany, Alagappa Govt. Arts College, Karaikudi.            | Expert Committee Member                     |
| 2009                            | Expert for the interview committee for selection of Lecturer post at P.T.M.T.M College, Kamuthi.                                                                                          | Expert                                      |
| <b>Advisory Committee</b>       |                                                                                                                                                                                           |                                             |
| 2019 – Till date                | Medicinal Plants –International Journal of Phytomedicines & Related Industries (ISSN: 0975-4261).                                                                                         | Advisory Board Member                       |
| 2019                            | International Conference on Innovative and Emerging Trends in Botany (ICIETB 2019) organized by the Department of Botany, Alagappa University.                                            | Advisory Committee Member & Plenary Speaker |

|                        |                                                                                                                                                                     |                            |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 2018 – Till date       | Namadhu Ariviyal, a Science Awareness Tamil Monthly.                                                                                                                | Advisory Board Member      |
| <b>Editorial Board</b> |                                                                                                                                                                     |                            |
| 2024                   | New Zealand Journal of Crop and Horticultural Science (Taylor and Francis) (ISSN:0114-0671)                                                                         | Associate Editor           |
| 2024                   | Multi-Omics Approaches for Abiotic Stress Response in Plants - A special issue of <b>Plants</b> (MDPI) (ISSN 2223-7747) (IF:4.5)                                    | Guest Editor               |
| 2018 – 27.06.2024      | International Journal of Plant & Soil Science (ISSN: 2320-7035).                                                                                                    | Academic Editor            |
| 2017                   | Science Domain International – An Open Peer Reviewed Journal in Science, Technology & Medicine ( <a href="http://www.sciencedomain.org">www.sciencedomain.org</a> ) | Editorial Board Member     |
| Since 23, January 2017 | Indian Journal of Natural Sciences (IJNS) ISSN: 0976- 0997, NAAS rated score: 3.56, MJL Thomson Reuters, USA.                                                       | Editorial Committee Member |

#### Academic Bodies in Other Institutes/ Universities:

| Year / Period         | Name of the BoS / Administrative Committee / Academic Committee                                   | Role           |
|-----------------------|---------------------------------------------------------------------------------------------------|----------------|
| February 2024         | Board of Studies in M.Sc. Botany, Annamalai University, Annamalainagar.                           | Member         |
| 2021- 2024            | Board of Studies in M.Sc., Biotechnology, Madura College, Madurai.                                | Subject Expert |
| February, 2019 - 2022 | Board of Studies in U.G. and P.G. Biotechnology of J.J. College of Arts and Science, Pudukkottai. | Member         |
| June 2013 – July 2025 | Board of Studies in B.Sc., and M.Sc., Biotechnology, SNR College, Coimbatore                      | Member         |

#### Ph.D. Thesis Evaluated / Viva Voce Conducted

1. No. of Ph.D. Thesis evaluated : 43
2. No. of Ph.D. Public Viva Voce Examination conducted : 38

#### Ph.D. Thesis Guided: 12

| S. No. | Name of the Scholar            | Title of the Thesis                                                                                                               | Year of Completion |
|--------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1.     | A. Karthikeyan (1678)          | Development of drought and salinity tolerant <i>indica</i> rice cv. ADT 43 through <i>Agrobacterium</i> – mediated transformation | 11.09.2011         |
| 2.     | A. Mohana Priya (0066/2008-09) | Development of drought and salinity tolerant <i>indica</i> rice cv. IR 64 through <i>Agrobacterium</i> – mediated transformation  | 11.10.2014         |

|     |                                        |                                                                                                                                                                                                                         |            |
|-----|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 3.  | M. Joe Virgin Largia<br>(0249/2010-11) | <i>In vitro</i> conservation and secondary metabolite enhancement of ayurvedic important medicinal plant <i>Bacopa monnieri</i> (L.) through Biotechnological approaches                                                | 07.08.2015 |
| 4.  | J. Shilpha<br>(362/2010-11)            | <i>Ex-Situ</i> conservation and <i>Agrobacterium</i> – mediated genetic transformation for augmenting secondary metabolites in <i>Solanum trilobatum</i> L., An ayurvedic medicinal plant.                              | 11.07.2016 |
| 5.  | S.Radhesh Krishnan<br>(405/2010-11)    | <i>In vitro</i> regeneration & <i>Agrobacterium</i> -mediated genetic transformation of elite waxy <i>indica</i> rice cv.IR 36 with <i>Oryza sativa</i> Stress Associated Protein 8 to improve abiotic stress tolerance | 10.08.2017 |
| 6.  | L. Satish<br>(559/2012-13)             | Stable production and quality improvement of Indian finger millet ( <i>Eleusine coracana</i> L.) through avoidance/ tolerance to drought stress by <i>Agrobacterium</i> -mediated transformation                        | 31.08.2017 |
| 7.  | A. Sagina Rency<br>(0984/2014-15)      | <i>In vitro</i> conservation and hairy root induction in industrially important Indian medicinal plants <i>Bacopa monnieri</i> L. and <i>Clitoria ternatea</i> L.                                                       | 10.05.2019 |
| 8.  | R. Rameshkumar<br>(0784/ 2013- 14)     | Biotechnological approaches for conservation of <i>Nilgirianthus ciliatus</i> (Nees) Bremek – An endemic and vulnerable Indian medicinal plant                                                                          | 20.09.2019 |
| 9.  | P. Rathinapriya<br>(0985/2014-15)      | Biotechnological approaches to enhance regeneration and quality improvement in Indian Foxtail millet ( <i>Setaria italica</i> L.), An Important C4 Model Crop                                                           | 07.02.2020 |
| 10. | S. Pandian<br>(1112/ 2014- 15)         | Molecular and Biochemical Characterization of Mini – Core Collection of Finger Millet ( <i>Eleusine coracana</i> (L.) Geartn) Germplasm                                                                                 | 07.02.2020 |
| 11. | P. Muthuramalingam<br>(1215/ 2015-16)  | Global omics analyses of individual and combined abiotic stress signaling genes to unravel key players in <i>Oryza sativa</i> (L.)                                                                                      | 28.05.2020 |
| 12. | R. Jeyasri<br>(R20162004/2018-19)      | Biotechnological approaches to analyze and explore the bioactive potential of Indian traditional medicinal plant <i>Bacopa monnieri</i> (L.)                                                                            | 20.12.2023 |

#### List of Research Articles: 106

| S. No | Authors/Title of the paper/Journal                                                                                                                          | Impact Factor |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 1.    | Collince O A, Ramesh M. Enhanced and predictive modelling of direct shoot regeneration of <i>Evolvulus alsinoides</i> (L.) using ANN machine learning model | 5.4           |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|     | and genetic stability studies <b>Current Plant Biology</b> .In Press                                                                                                                                                                                                                                                                                                                                                                                                          |     |
| 2.  | Collince O A, Sneha A, Rakkammal A, Muthui M M, Anitha Kumari R, Suresh Govindan, Çolak AB, Bayrak M, Muthuramalingam P, Anadebe VC, Archana P, Sekar C and <b>Ramesh M</b> ( September ,2024). Carbon Dot Unravels Accumulation of Triterpenoid in <i>Evolvulus Alsinoides</i> (L.) Hairy Roots Culture by Stimulating Growth, Redox Reactions and ANN Machine Learning Model Prediction of Metabolic Stress Response. <b>Plant Physiology and Biochemistry</b> . 216:109142 | 6.1 |
| 3.  | Jeevan Ram P S,Ramesh kumar R,Pavan Kumar K, Singh S, Anitha Kumari R, Suresh Govindan, Rathika S and <b>Ramesh M</b> (19 September, 2024) Phyto-safe in vitro regeneration and harnessing antimicrobial-resistant endophytes as bioinoculants for enhanced growth and secondary metabolites yield in Nilgirianthus ciliates. <b>BMC Plant Biology</b> . 24:872. <a href="https://doi.org/10.1186/s12870-024-05582-8">https://doi.org/10.1186/s12870-024-05582-8</a>          | 4.3 |
| 4.  | Collince A, Rakkammal K, <b>Ramesh M</b> (08 August, 2024) Hairy-Root Technology: A Metabolic Engineering Tool and Specialized Metabolite Pathway Elucidation and production of Secondary Metabolites. A Review. <b>Results in Engineering</b> . 23, 102697. <a href="https://doi.org/10.1016/j.rineng.2024.102697">https://doi.org/10.1016/j.rineng.2024.102697</a> .                                                                                                        | 6.0 |
| 5.  | Muthuramalingam P, Jeyasri R, Varadharajan V, Rriya A, Shin H, Ramesh M, Krishnan M, Omosimua R O Venkidasamy B (5 July, 2024) Network pharmacology: An efficient but underutilized approach in oral, head and neck cancer therapy - A review. <b>Frontiers in Pharmacology</b> . 15 - 2024 doi: 10.3389/fphar.2024.1410942.                                                                                                                                                  | 5.6 |
| 6.  | Nachammai K,Harini H, Ravi AV, Prathiyanga V, Sangavi P , Ramesh M, Collice Awere , Collince Awere ' Langeswaran K(16 July, 2024) Deciphering the Potential Therapeutic Effects of <i>Hydnocarpus wightianus</i> Seed Extracts using <i>in vitro</i> and <i>in silico</i> approaches. <b>Microbial Pathogenesis</b> . 106798.                                                                                                                                                 | 3.3 |
| 7.  | Collince AO , Rakkammal K,Jeevan Ram P S, Pavan Kumar K, Ragavan K, Anitha Kumari R; Suresh Govindan, Kher M M, Drori E & <b>Ramesh M</b> (July, 2024) Micropropagation, genetic fidelity and chromatographic analysis in <i>Evolvulus alsinoides</i> (L.): A potent multipurpose medicinal plant. <b>Industrial Crops and Products</b> . 213,118444                                                                                                                          | 5.9 |
| 8.  | Jeyasri R, Muthuramalingam P, Priya A, Alexpandi R, Nivetha S, Shin H, Pandian SK, Ravi AV and Ramesh M (June 2024) Comprehensive in vitro and in vivo evaluation of therapeutic potential of Bacopa derived Asiatic acid against a human oral pathogen <i>Streptococcus mutans</i> ". <b>Frontiers in Microbiology</b> (Section: Antimicrobials, Resistance and Chemotherapy. DOI 10.3389/fmicb.2024.1404012                                                                 | 5.2 |
| 9.  | Rakkammal K, Pandian S, <b>Ramesh M</b> (03 February, 2024) Physiological and biochemical response of finger millet plants exposed to Arsenic and Nickel stress. <b>Plant Stress</b> (Elsevier). <a href="https://doi.org/10.1016/j.stress.2024.100389">https://doi.org/10.1016/j.stress.2024.100389</a>                                                                                                                                                                      | 6.8 |
| 10. | Rakkammal K, Pandian S, Ceasar A & <b>Ramesh M</b> (24 July, 2023) Humic acid regulates gene expression and activity of antioxidant enzymes to inhibit the salt induced oxidative stress in finger millet. <b>Cereal Research Communications</b> (Springer Nature). <a href="https://doi.org/10.1007/s42976-023-00429-8">https://doi.org/10.1007/s42976-023-00429-8</a>                                                                                                       | 1.6 |
| 11. | Jeyasri R, Muthuramalingam P, Kannan K, Shin H, Choi SH, & <b>Ramesh M</b> . (03 March, 2023). Methyl jasmonate and salicylic acid as powerful elicitors for enhancing the production of secondary metabolites in medicinal plants: An updated review. <b>Plant Cell, Tissue &amp; Organ Culture</b> (Springer Nature). <a href="https://doi.org/10.1007/s11240-023-02485-8">https://doi.org/10.1007/s11240-023-02485-8</a>                                                   | 3.0 |

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## Book Chapters: 20

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### Resource persons in various capacities

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