



Bharathiar University

State University | "A⁺⁺" Grade by NAAC | 46th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

<p>Dr PARIMELAZHAGAN THANGARAJ Professor Department of Botany Bharathiar University Coimbatore, 641046 Tamil Nadu E-mail: drparimel@buc.edu.in Phone: 8903001973 Office Number: 0422 2428305</p>	
<p>Research Area</p> <ul style="list-style-type: none"> • Research Focus • Translation and commercialization of natural products • Phytomedicine and Nutraceuticals • Bioprospection of Medicinal and Aromatic plants 	<p>Courses Teaching</p> <ul style="list-style-type: none"> • Plant Biochemistry • Plant Physiology • IPR (Intellectual Property Rights) • Research Methodology • Herbal Technology
<p>Research Experience: • Ethnobiology and Pharmacology</p>	<p>Teaching Experience: 15</p>
<p>Research Credentials (as on September 2025 – Source: Google scholar) H-index: 35 Citations: 4482 i10-index: 100</p>	
<p>Patents : Granted: 4</p>	
<p>Publications Books/Chapters: 59 International Journals: 124 National Journals: 12</p>	
<p>Career</p> <p>At Bharathiar University</p> <ol style="list-style-type: none"> 1. Designation : Professor and Head Period : March 2022 - Till Date 2. Designation : Dean Period : June 2024 - Till Date 3. Designation : Director Period : January 2023 - Till Date 4. Designation : Director Period : January 2017 - January 2023 5. Designation : Professor Period : February 2014 - March 2022 6. Designation : Associate Professor Period : February 2011 - February 2014 7. Designation : Reader Period : February 2008 - February 2011 <p>Other Institutes</p> <ol style="list-style-type: none"> 1. Designation : Scientist Institution Name : Rubber Research Institute of India, Ministry of Commerce, Govt. of India Turu, Meghalaya Period : March 2000 - January 2004 2. Designation : Scientist Institution Name : Defence Research and Development Organization, Ministry of Defence, Govt. of India, Bhopal Period : January 2004 - January 2008 	



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Dr PARIMELAZHAGAN THANGARAJ , Professor , Department of Botany

Education

D.Sc

Subject : Botany
Institution : Periyar University, Salem
Affiliated University : Periyar University, Salem
Year of Award : April 2024

Ph. D.

Subject : Botany
Institution : Bharathiar University, Coimbatore
Affiliated University : Bharathiar University, Coimbatore
Year of Award : February 2000

M. Sc.

Subject : Botany
Institution : Bharathiar University, Coimbatore
Affiliated University : Bharathiar University, Coimbatore
Year of Award : July 1995

B. Sc.

Subject : Botany
Institution : St. Joseph's College (Autonomous)
Affiliated University : Bharathidasan University
Year of Award : May 1993

Projects

National Level

Ongoing - 3 completed - 12

Research Guidance

Completed

Ph.D. - 15

International Level Institutional Responsibilities

Ongoing - 1 completed - 1

Director - IPR Cell

Period :Jan 2016 - Dec 2023
Nature of Responsibility :Facilitate Patent Filling and other IPR activities

Dean, Faculty of Science

Period :Jun 2024 to Till date

Nature of Responsibility :

Deputy Coordinator - RUSA MoE

Period :Jul 2020 - Jul 2024

Nature of Responsibility :

Director, Centre for Research and Technology Development

Period :Mar 2022 to Till date

Nature of Responsibility :

Special Officer, Planning and Development

Period :Jul 2017 - Jul 2023

Nature of Responsibility :

Board of Governor - RUSA MoE

Period :Jul 2020 - Jul 2024

Nature of Responsibility :

Coordinator, CBCS

Period :Mar 2009 - Apr 2013

Nature of Responsibility :



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Dr PARIMELAZHAGAN THANGARAJ , Professor , Department of Botany

Coordinator, IQAC

Period :Mar 2009 - Apr 2014

Nature of Responsibility :

Faculty Coordinator for Student Welfare

Period :Mar 2009 - Apr 2014

Nature of Responsibility :

NAAC Coordinator

Period :Mar 2023 - Dec 2023

Nature of Responsibility :

Coordinator, UGC SAP

Period :Mar 2020 - Apr 2024

Nature of Responsibility :

Coordinator, DST FIST

Period :Mar 2021 - Apr 2024

Nature of Responsibility :

Member for Board of Studies

Period :Mar 2013 to Till date

Nature of Responsibility :For various Universities and Colleges

Member of Doctoral Committee

Period :Mar 2013 to Till date

Nature of Responsibility :For various Universities and Colleges

External Examiner, Ph. D. Thesis and Viva Voce

Period :Jan 2012 to Till date

Nature of Responsibility :For various Universities and Colleges

Visits

1. UGC Sponsored Raman Post-Doctoral fellow in Dept. of Pharmaceutical Sciences, College of Pharmacy University of Hawaii, Hilo (2015-11-30 - 2014-12-01)
2. Deliver a invited talk at World Nutraceutical Conference and Expo (2015-07-01 -)
3. Present research paper at 18th International Conference on Pharmacology, Medicinal and Pharmaceutical Sciences organized by World Academy of Science, Engineering and Technology (2016-07-01 -)
4. Visited Bangladesh to present a research paper at 10th Bangladesh Botanical Conference (1999-11-14 - 1999-11-12)
5. Visited Sweden (Uppsala) to present research paper at International conference on Natural Drugs origin (2007-09-05 - 2007-09-08)
6. To present research paper at International symposium on Underutilized plant species: Crops for the future- Beyond Food Security (2011-06-27 - 2011-07-01)
7. Visited Manipl Academy of Higher Education, Dubai campus in connection with delivering guest lecture (2019-03-11 -)
8. Visited Federal University of Mato Grosso, Brazil as an invited speaker of the IV workshop on ethnopharmacology on the title "Biodiversity Legislation in India" (2019-09-05 -)
9. Visited Thailand to deliver an invited lecture at ICAEBC organized by Metharath University (2023-08-09 -)

Collaborations

1. DST Indo-South Africa Bilateral project with University of Johannesburg (2017-02-01 -)
2. Visited Department of Biology, Rutgers University - Camden, New Jersey, USA and Interacted with Dr. Simeon Kotchoni (2015-07-17 -)



3. DST Indo-South Africa Bilateral project with University of Johannesburg (2019-03-01 - 2019-03-10)

Programs organized

1. National Symposium on Herbal Drug Research (2008-09-25 - 2008-09-26)
2. Workshop on Intellectual Property Rights (Natural products) (2009-02-09 -)
3. National Workshop on Scientific validation of traditional Herbal medicine (2009-12-16 - 2009-12-17)
4. National Conference on Herbal Medicine (2010-09-08 - 2010-09-09)
5. Workshop on Recent Trends in Plant Science (2011-02-08 - 2011-02-09)
6. National Workshop on Intellectual Property Rights – Opportunities, Issues and Challenges (2011-08-11 - 2011-08-12)
7. Workshop on Man and Medicinal Plants (2012-02-23 - 2012-02-24)
8. National Conference on Phytomedicine (2012-10-04 - 2012-10-05)
9. National Workshop on Intellectual Property Rights (2013-08-01 - 2013-08-02)
10. National Workshop on Intellectual Property Rights (2016-03-03 - 2016-03-04)
11. National Workshop on Intellectual Property Rights in Biomedical Innovations (2016-10-20 -)
12. International Conference on Phytomedicine (2018-08-29 - 2018-08-31)
13. National Workshop on Intellectual Property Rights (2019-03-21 - 2019-03-22)
14. Two days Interactive Workshop on Converting the Research work Worth Commercialization- Claim Drafting (2019-08-29 - 2019-08-30)
15. Two Days National Conference on Phytomedicine (2023-01-05 - 2023-01-06)
16. Served as a Coordinator to conduct a Refresher course in Botany (2010-09-03 -)
17. Served as Course Director and conducted a DBT Short Term Training Course on Bioprospecting of Medicinal Plants: A Biotechnological Approach (2012-03-01 - 2012-03-16)
18. Served as Course Director and conducted a DBT Short Term Training Course on Analytical Techniques in Bioprospecting of Medicinal Plants (2017-10-23 - 2017-11-08)
19. Served as a Course Co-ordinator for the UGC- Sponsored Short-Term Course on Intellectual Property Rights (2019-09-12 - 2019-09-18)
20. Served as a Course Co-ordinator Webinar on Recent Advances in Biological Sciences- (2020-05-14 - 2020-05-15)
21. Summer Training Program in Biological Sciences (2020-07-15 - 2020-07-30)
22. Summer Training Program in Biology (2021-07-20 - 2021-08-07)

Publications

International Journals - 124

124. Molecular insights into bioactive compounds from *Symplocos acuminata* leaf extract: GC-MS profiling, anti-HPV targeting and cytotoxic dynamics against cervical cancer cells.

Journal of Herbs, Spices & Medicinal Plants, 1-22 (September 2025)

Rajendran, K., Seeniponnalagu, S., Paul, B. M., Thangaraj, P., Manickam, V., & Anusuya, S.

123. Folic Acid Treatment Enhances Bio-accessibility and Antioxidant Activity of Sprouts and Microgreens: A Comparative Study Across Developmental Stages. .

Food Bioscience, 107325 (July 2025)

Rajendran, K., Seeniponnalagu, S., Paul, B. M., Kannan, G., Thangaraj, P., & Anusuya, S.



122. Phytochemical intervention in BCRP-driven cancer drug resistance: A comprehensive review.

Biochimica et Biophysica Acta (BBA)-Reviews on Cancer (May 2025)
Ruban, S. A., Raj, F. J., Thangaraj, P.

121. In silico docking, ADMET profiling, and bio-accessibility experimentation on Breynia retusa phytochemicals and in vitro validation for anti-proliferative potencies against ovarian carcinoma.

3 Biotech (April 2025)
Paul, B. M., Sundararajan, V. V., Raj, F. J., Kannan, G., Durairajan, M. B., & Thangaraj, P.

120. GC/MS/HPLC Profiling and Sono-Maceration Mediated Extraction of Osbeckia Parvifolia Polyphenols: In Silico and In Vitro Analysis on Anti-Proliferative Activity in Ovarian Cancer Cell Lines.

Chemistry & Biodiversity (March 2025)
Mathews Paul, B., Kannan, G., Jegan Raj, F., Velavan Sundararajan, V., Annadurai, Y., Piramanayagam, S., & Thangaraj, P.

119. Effects of Prebiotic Phytochemical Administration in Gestational Diabetic Dams and Its Influence on Offspring Cognitive Outcomes

International Journal of Molecular Sciences (March 2025)
Jagadeesan, G., Das, T. K., Mendoza, J. M., Alrousan, G., Blasco-Conesa, M. P., Thangaraj, P., & Ganesh, B. P.

118. Stimulation, regulation, and inflammaging interventions of natural compounds on nuclear factor kappa B (NF-κB) pathway: a comprehensive review

Inflammopharmacology (January 2025)
Kannan, G., Paul, B. M., & Thangaraj, P.

117. Exploring the Immunomodulatory Effects of Polysaccharides in the Management of Inflammatory Bowel Disease: A Review.

Journal of Herbal Medicine (December 2024)
Durairajan, M. B., & Thangaraj, P.

116. The protective influence of Secamone emetica (Retz.) R. Br. ex Sm.: Mitigating oxidative stress and glycoxidation in glucose-albumin system

Process Biochemistry (June 2024)
Motwani, N. D., & Thangaraj, P. (2024). The Protective Influence of Secamone emetica (Retz.) R. Br. ex Sm

115. Elicitation of nutritional, antioxidant, and antidiabetic potential of barnyard millet (Echinochloa esculenta (A. Braun) H. Scholz) sprouts.

Food Chemistry (May 2024)
Madhu Bala Durairajan, Vetri Velavan Sundararajan, Gowtham Kannan, Benedict Mathews Paul, Kasipandi Muniyandi, Parimelazhagan Thangaraj

114. Alpinia galanga induces caspase-dependent apoptotic cell death in human lung and cervical cancer cells.

Journal of Herbmmed Pharmacology (May 2024)
Alex Zohmachhuana, Nachimuthu Senthil Kumar, Malsawmdawngliana Malsawmdawngliana, Vabeiryureilai Mathipi, Lalrinzuali Lalrinzuali, Thangaraj Parimelazhagan, & F. Lalnunmawia

113. Exploring the hypoglycaemic efficacy of bio-accessed antioxidative polyphenolics in thermally processed Cucumis dipsaceus fruits – An in vitro and in silico study

Food Chemistry (October 2023)
Benedict Mathews Paul, Gayathri Jagadeesan, Gowtham Kannan, Francis Jegan Raj, Yamuna Annadurai, Shanmughavel Piramanayagam, Parimelazhagan Thangaraj

112. A comparative study of solvent extraction methods for a weed Sphaeranthus amaranthoides Burm.f.: phytochemical evaluation using chromatography (GC/MS and HPLC) and in vitro anti-diabetic activity.

Biomass Conv

Bioref (August 2023)
Nataraj, G., Velmurgan, P., Jagadeesan, G., Thangaraj, P. et al



111. *Ipomoea pes-tigridis* L. extract accelerates wound healing in Wistar albino rats in excision and incision models

Journal of Ethnopharmacology (June 2023)

Nataraj, G., Jagadeesan, G., Manoharan, A. L., Muniyandi, K., Sathyarayanan, S., & Thangaraj, P

110. Evaluation of Pharmacological Potential of *Milium nilagirica* Bedd. Leaves Using In Vitro Antidiabetic and Antioxidant Assays

Applied biochemistry and biotechnology (April 2023)

Raj, F. J., Jagadeesan, G., Mathews Paul, B., Thangaraj, P., & Kilimas, R.

109. Antibacterial drugs and cyclodextrin inclusion complexes

Expert Opinion on Drug Delivery (March 2023)

Santos, A. M., Carvalho Santana Júnior, C., Nascimento Júnior, J. A. C., Andrade, T. D. A., Shanmugam, S., Thangaraj, P., ... & Serafini, M. R

108. Efficacy of *Trevesia Palmata* (Roxb. Ex Lindl.) Vis. Extract on MG 63 Cell Lines and Arthritis-Induced

Animal Models

Journal of Ethnopharmacology (January 2023)

Manoharan, A. L., Jagadeesan, G., Nataraj, G., Muniyandi, K., Gurusubramanian, G., Arunachalam, K., & Thangaraj, P

107. α -Glucosidase, α -amylase inhibition kinetics, in vitro gastro-intestinal digestion, and apoptosis inducing abilities of *Ficus microcarpa* L. f. and *Ficus racemosa* L. fruit polysaccharides

Food Science and Biotechnology, (August 2022)

Muniyandi, K., Jagadeesan, G., George, B. P., Manoharan, A. L., Nataraj, G., Abrahamse, H., & Thangaraj, P

106. Antioxidant and Antivenom Potential of an Essential Oil, 4-(2-Oxo-propyl)-cyclopentane-1,3-dione, and Allantoin Derived from the Polyherbal Combination of *Aristolochia indica* L. and *Piper nigrum* L

Evidence-Based Complementary and Alternative Medicine (May 2022)

Dhivya Sivaraj, Ray J. Butcher, Jerry P. Jasinski, Saikumar Sathyarayanan, Revathi Ponnusamy, Sreeja Puthanpura Sasidharan, Kasipandi Muniyandi, Parimelazhagan Thangaraj, Karuppusamy Arunachalam

105. Toxicity and Antiulcer Properties of *Ipomoea wightii* (Wall.) Choisy Leaves: An In Vivo Approach Using Wistar Albino Rats

Evidence-Based Complementary and Alternative Medicine (March 2022)

Saikumar Sathyarayanan, Puthanpura Sasidharan Sreeja Karuppusamy Arunachalam, Thangaraj Parimelazhagan

104. Glycogen synthase kinase 3 β inhibition and Insulin-Receptor binding enhancement of compounds isolated from Wild Leafy Vegetable *Acalypha alnifolia*.

Phytomedicine Plus (January 2022)

Ponnusamy, Revathi, Kalaiarasi Giriraj, Magesh Selvakumar, Parimelazhagan Thangaraj, Saikumar Sathyarayanan, Adriano Antunes de Souza Araújo, Saravanan Shanmugam, and Lucindo José Quintans Junior

103. Anti-inflammatory and modulatory effects of steroidal saponins and sapogenins on cytokines: a review of pre-clinical research. Phytomedicine

Phytomedicine (November 2021)

Passos, Fabiolla Rocha Santos, Heitor Gomes Araújo-Filho, Brenda Souza Monteiro, Saravanan Shanmugam, Adriano Antunes de Souza Araújo, Jackson Roberto Guedes da Silva Almeida, Parimelazhagan Thangaraj, Lucindo José Quintans Júnior, and Jullyana de Souza S

102. Understanding the bioaccessibility, α -amylase and α -glucosidase enzyme inhibition kinetics of *Allmania nodiflora* (L.) R. Br. ex Wight polyphenols during in vitro simulated digestion.

Food Chemistry (September 2021)

Jagadeesan, Gayathri, Kasipandi Muniyandi, Ashwini Lydia Manoharan, Gayathri Nataraj, and Parimelazhagan Thangaraj

101. Evaluation of an edible polyherbal formulation against urinary tract infection pathogens, its antioxidant and anti-inflammatory potential

Biocatalysis and Agricultural Biotechnology (July 2021)

Abbas, Z., Manoharan, A. L., Jagadeesan, G., Nataraj, G., Muniyandi, K., Sathyarayanan, S., & Thangaraj, P



100. Comparative and variability analysis of different drying methods on phytochemical, antioxidant and phenolic contents of *Ficus auriculata* Lour. Fruit

Phytomedicine Plus (June 2021)

Paramanandam, V., Jagadeesan, G., Muniyandi, K., Manoharan, A. L., Nataraj, G., Sathyanarayanan, S., & Thangaraj, P

99. Integrated genomic and functional characterization of the anti-diabetic potential of *Arthrobacter* sp. SW1

Current Microbiology (April 2021)

S Shaligram, P Nitin., Shreyas V. Kumbhare, Manobjyoti Bordoloi, Kashyap J. Tamuli, Shyamalendu Nath, T. Parimelazhagan, Vikas S. Patil, Atya Kapley, Shrikant P. Pawar, Dhiraj P. Dhotre, M. G. Muddeshwar, Hemant J. Purohit & Yogesh S. Shouche

98. Exploring combined herbal extract-loaded phytoniosomes for antimalarial and antibacterial activity against methicillin-resistant *Staphylococcus aureus*

3 Biotech (March 2021)

E. Tamilselvi, A Karuppaiah, G Shyamala, S Shobana, T Parimelazhagan, S Hariharan, V Sankar

97. Canthin-6-one ameliorates TNBS-induced colitis in rats by modulating inflammation and oxidative stress.

An in vivo and in silico approach

Biochemical Pharmacology (January 2021)

Arunachalam, K., Damazo, A. S., Macho, A., Matchado, M. S., Pavan, E., de Freitas Figueiredo, F & de Oliveira Martins, D. T. Parimelazhagan

96. Volatile profiling and UHPLC-QqQ-MS/MS polyphenol analysis of *Passiflora leschenaultii* DC fruits and its anti-radical and anti-diabetic properties

Food Research International (September 2020)

Saravanan Shanmugam, Rafael Donizete Dutra Sandes, Murugan Rajan, Maria Terezinha Santos Leite Neta, Bruno dos Santos Lima, Maria Joseli Melo de Jesus, Marina Denadai, Narendra Narain, Parimelazhagan Thangaraj, Mairim Russo Serafini, Lucindo José Quintans

95. Profiles of nutritional, bioactive compounds and cytotoxic activity of Dwarf date palm (*Phoenix loureiroi*) fruit

Journal of Food Measurement and Characterization (July 2020)

Rajan, M., Shanmugam, S., Guedes, T. J. F. L., Thangaraj, P., Barbosa, P. F., & Narain, N

94. Combined Effect of *Vaccinium nilgiriensis* Bark Extract and 680 nm Laser Irradiation in Inducing Breast Cancer Cell Death

Anti-cancer agents in medicinal chemistry (June 2020)

George, B. P., Chandran, R., Thamburaj, S., & Parimelazhagan, T

93. Antibacterial activity of *elaecarpus* spp: an in vitro evaluation

International Journal of Pharmaceutical and Biological Science Archive (April 2020)

Ponmurugan, P., Parimelazhagan, T., Rajendran, A., Gurusaravanan, P., Sekar, T., Suganya, M., & Gnanamangai, M

92. Effect of different cooking methods of *Hibiscus serratensis* L. Leaf vegetable on nutritional, anti-nutritional composition, and antioxidant activities

Journal of Culinary Science & Technology (March 2020)

Moorthy, P., Rajan, M., Sathyanarayanan, S., Muniyandi, K., Sivaraj, D., Sasidharan, S. P., & Thangaraj, P.

91. Role of photoactive phytochemicals in photodynamic therapy of cancer

Molecules (February 2020)

Muniyandi, K., George, B., Parimelazhagan, T., & Abrahamse, H

90. HPLC-DAD-MS identification of polyphenols from *Passiflora leschenaultia* and determination of their antioxidant, analgesic, anti-inflammatory and antipyretic properties

Arabian journal of chemistry (November 2019)

Shanmugam, S., Murugaiyan, I., dos Santos Lima, B., Serafini, M. R., de Souza Araújo, A. A., Narain, N., ... & Thangaraj, P

89. Protective effects of flavonoid composition rich *P. Subpeltata* Ortega. On indomethacin induced experimental ulcerative colitis in rat models of inflammatory bowel diseases

Journal of ethnopharmacology (September 2019)

Shanmugam, S., Thangaraj, P., dos Santos Lima, B., Trindade, G. G., Narain, N., e Silva, A. M. D. O., ... & de Souza Araújo, A. A



88. Comparative Study of Biological (Phoenix loureiroi Fruit) and Chemical Synthesis of Chitosan-Encapsulated Zinc Oxide Nanoparticles and their Biological Properties

Arabian Journal for Science and Engineering (August 2019)

Murugan Rajan, Allen Joseph Anthuvan, Kasipandi Muniyandi, Naveen Kumar Kalagatur, Saravanan Shanmugam, Saikumar Sathyanarayanan, Viswanathan Chinnuswamy, Parimelazhagan Thangaraj & Narendra Narain

87. Antioxidant, anti-inflammatory activities and HPLC quantification of flavonoids in Pteris Sw. A critically endangered medicinal fern from India."

Biocatalysis and Agricultural Biotechnology (July 2019)

Xavier-ravi, Baskaran, Geo vigila Antony-varuvel, Parimelazhagan Thangaraj, Muralidhara-Rao Doulatnabad, and Killimas Rajan

86. Antioxidant and antimicrobial investigations of Elaeocarpus tectorius (Lour.) Poir. Fruits against urinary tract infection pathogens

Biocatalysis and Agricultural Biotechnology (June 2019)

Manoharan, A. L., Thamburaj, S., Muniyandi, K., Jagadeesan, G., Sathyanarayanan, S., Nataraj, G., & Thangaraj, P.

85. Effects of in vitro simulated gastrointestinal digestion on the antioxidant, α -glucosidase and α -amylase inhibitory activities of water-soluble polysaccharides from Opilia amentacea roxb fruit

LWT- Food Science and Technology (May 2019)

Kasipandi, M., Manikandan, A., Sreeja, P. S., Suman, T., Saikumar, S., Dhivya, S., & Parimelazhagan, T

84. Anti-hyperalgesic and anti-inflammatory effects of citral with β -cyclodextrin and hydroxypropyl- β -cyclodextrin inclusion complexes in animal models"

Life Sciences (April 2019)

Caio A. Campos , Bruno S. Lima , Gabriela G.G. Trindade , Eloísa P.B.S.S. Souza , Débora S.A. Mota , Luana Heimfarth , Jullyana S.S. Quintans , Lucindo J. Quintans-Júnior , Eliana M. Sussuchi , Victor H.V. Sarmiento , Flávio M.S. Carvalho , Ricardo N. Mar

83. "Antioxidant Effects and Suppression of Nitric Oxide Production in LPS-stimulated Macrophages by Fractions of Vaccinium leschenaultia Wight."

Journal of Herbs, Spices & Medicinal Plants (April 2019)

Thangaraj, P., Pezzuto, J. M., Kondratyuk, T. P., & Rajan, M

82. "Phenolics, tannins, flavonoids and anthocyanins contents influenced antioxidant and anticancer activities of Rubus fruits from Western Ghats, India."

Food Science and Human Wellness (March 2019)

Muniyandi, K., George, E., Sathyanarayanan, S., George, B. P., Abrahamse, H., Thamburaj, S., & Thanagraj, P.,

81. "Effect of in vitro simulated digestion on sugar content and biological activities of Zehneria maysorensis (Wight & Arn.) Arn. Leaf polysaccharides"

Journal of Food Measurement and Characterization (February 2019)

Kasipandi, M., Vrindarani, A. S., Sreeja, P. S., Thamburaj, S., Saikumar, S., Dhivya, S., & Parimelazhagan, T

80. HPLC – DAD – MS identification of polyphenols from Passiflora leschenaultii and determination of their antioxidants, analgesic, anti-inflammatory and antipyretic properties

Arabian journal of chemistry (January 2019)

S. Saravanan, M. Iniyavan, Bruno dos dantos Lima, Mairim Russi Serafini, Adriano Antunes deee Souza Araujo, Narendra Narain, Lucindo Jose, Quintans – Junior, T. Parimelazhagan

79. "Optimization of phenolic compounds extracting conditions from Ficus racemosa L. Fruit using response surface method."

Journal of Food Measurement and Characterization (January 2019)

Jagadeesan, Gayathri, Kasipandi Muniyandi, Ashwini Lydia Manoharan, Suman Thamburaj, Saikumar Sathyanarayanan, and Parimelazhagan Thangaraj

78. Sphenodesme var. Paniculata (CB Clarke) Munir.: chemical characterization, anti-nociceptive and anti-inflammatory activities of methanol extract of leaves

Journal of Ethnopharmacology (October 2018)

Sreeja, P.S., Arunachalam, K., de Oliveira Martins, D.T., da Silva Lima, J.C., Balogun, S.O., Pavan, E., Saikumar, S., Dhivya, S., Kasipandi, M. And Parimelazhagan, T



77. Diphyllin: An effective anticandidal agent isolated from *Cleistanthus collinus* leaf extract

Egyptian Journal of Basic and Applied Sciences (July 2018)

Thamburaj Suman, Ramraj Elangomathavan, Muniyandi Kasipandi, Kamalanathan Chakkaravarthi, Dhanapal Tamilvendan, Thangaraj Parimelazhagan

76. Cytotoxic, analgesic and anti-inflammatory properties of *Syzygium calophyllifolium* bark

Biomedicine & Pharmacotherapy (June 2018)

Chandran, Rahul, Heidi Abrahamse, and Thangaraj Parimelazhagan

75. UHPLC-QqQ-MS/MS identification, quantification of polyphenols from *Passiflora subpeltata* fruit pulp and determination of nutritional, antioxidant, α -amylase and α -glucosidase key enzymes inhibition properties

Food Research International (April 2018)

Shanmugam, Saravanan, Isla Alcântara Gomes, Marina Denadai, Bruno dos Santos Lima, Adriano Antunes de Souza Araújo, Narendra Narain, Maria Terezinha Santos Leite Neta, Mairim Russo Serafini, Lucindo José Quintans-Júnior, and Parimelazhagan Thangaraj

74. Evaluation of *Aristolochia indica* L. and *Piper nigrum* L. methanol extract against centipede *Scolopendra moristans* L. using Wistar albino rats and screening of bioactive compounds by High pressure liquid chromatography: A polyherbal formulation

Biomedicine and pharmacotherapy (March 2018)

Dhivya Sivaraj, Saravanan Shanmugam, Murugan Rajan, Sreeja Puthanpura Sasidharan, Saikumar Sathyanarayanan, Kasipandi Muniyandi, Parimelazhagan Thangaraj, Adriano Antunes de Souza Araujo

73. Gastroprotective effect and mode of action of methanol extract of *Sphenodesme involucreta* var. *paniculata* (C.B. Clarke) Munir (Lamiaceae) leaves on experimental gastric ulcer models

Biomedicine and Pharmacotherapy (February 2018)

Puthanpura Sasidharan Sreeja, Karuppusamy Arunachalam, Sathyanarayanan Saikumar, Muniyandi Kasipandi, Sivaraj Dhivya, Rajan Murugan, Thangaraj Parimelazhagan

72. Phytochemical composition, antioxidant and anti-bacterial activity of *Syzygium calophyllifolium* Walp.

Fruit

Journal of food science and technology (January 2018)

Saikumar Sathyanarayanan, Rahul Chandran, Sajeesh Thankarajan, Heidi Abrahamse, Parimelazhagan Thangaraj

71. Chemical profiling of *Pterolobium hexapetalum* leaves by HPLC analysis and its productive wound healing activities in rats

Biomedicine & Pharmacotherapy (November 2017)

Saikumar Sathyanarayanan, Kasipandi Muniyandi, Elizabeth George, Dhivya Sivaraj, Sreeja Puthanpura Sasidharan, Parimelazhagan Thangaraj

70. Therapeutic effects of *Syzygium mundagam* bark methanol extract on type-2 diabetic complications in rats

Biomedicine & Pharmacotherapy (October 2017)

Chandran, R., George, B.P., Abrahamse, H., Parimelazhagan, T

69. *Syzygium mundagam* bark methanol extract restores skin to normal in diabetic wounded rats

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T. Parimelazhagan.

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T. Parimelazhagan.

11. Herbal perspectives: Present and Future.

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10. Pharmaceutical properties of L-Dopa and its therapeutic application.

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Pugalenthi M., Vadivel V. and Parimelazhagan T.

9. Antioxidant activity and hypoglycaemic property of a South Indian under-utilized food legume *Acacia nilotica* DC

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7. Antimicrobial activity of leaf extracts of medicinal plants against human pathogens.

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6. Ethnobotanical investigations among Alu Kurumba tribes in Baviur village, Niligiri district of Tamil Nadu (India)

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Rajan Muruan, Karuppusamy Arunachalam and Thangaraj Parimelazhagan

5. A review on *Passiflora* species of Southern India

Herbal drug research: Recent trends and progress. (April 2011)
Sajeesh Thankarajan, Saravanan Shanmugam and Parimelazhagan Thangaraj

4. *Seabuckthorn hippophae* sp.: the golden bush. (Ed),

Satish Serial Publishing House, New Delhi, 2009, ISBN 8189304607 (May 2009)
S. K. Dwivedi, T.Parimelazhagan



3. Bioactive substances and Therapeutic uses of Seabuckthorn

Seabuckthorn, Hippophae spp.: The Golden Bush (March 2009)
Parimelazhagan T., Chaurasia O.P. and Zakwan Ahmed

2. High altitude trans Himalayan medicinal plants of Defence importance

Herbal Drug Research (September 2005)
O.P. Chaurasia, T. Parimelazhagan and Z. Ahmed

1. Promising medicinal plant Rheum from cold desert of Himalaya

International Conference Proceeding: Promotion and Development of Botanicals with International Coordination (March 2005)
T. Parimelazhagan, O.P. Chaurasia and Z Ahmed

National Journals - 12

12. Evaluation of antioxidant potential of ethanolic extracts of selected species of Selaginella.

Indian Journal of Natural Products and Resources (October 2013)
A. Sivaraman, M. Johnson, T. Parimelazhagan and Irudayaraj

11. Evaluation of antioxidant potential of different parts of wild edible plant Passiflora foetida L

Journal of Applied Pharmaceutical Science (August 2011)
Sasikala V, Saravanan S and Parimelazhagan T

10. Evaluation of Fibrolytic Activity of Two Different Anaerobic Rumen Fungal Isolates for their Utilization as

Microbial Feed Additive

Animal Nutrition and Feed Technology (November 2010)
Delcy Mamen, V. Vadivel, M. Pugalenthil and T. Parimelazhagan

9. Seabuckthorn: Oil with promising medicinal value.

Current Science (July 2007)
T. Parimelazhagan, O.P. Chaurasia and Z. Ahmed

8. Different Mulching effects on Rubber seedling growth

Journal of Plantation Crops (January 2004)
H.K.Deka, T. Parimelazhagan and M.J.Reju

7. Botanical fungicide for the control of rice blast disease.

Bioved (October 2001)
T. Parimelazhagan

6. Antifungal Activity of Clerodendrum viscosum against Curvularia lunata in Rice Seeds

J. Mycol. Pl. Pathol (February 1999)
T. Parimelazhagan and K. Francis

5. Plant extracts to kill rice seed pathogens.

Science and Technology, The Hindu (June 1998)
T. Parimelazhagan, P. Shanmughavel and K. Francis.

4. Investigation of pollution and its influence on the biomass of a monsoon fed fresh water pond.

Pollution Research (September 1997)
K. Francis, P. Shanmughavel, M. Anbazhagan and T. Parimelazhagan

3. Studies on minor forest products of forests of Sathyamangalam.

Journal of Non Timber Forest Products (August 1996)
P. Shanmughavel, M. Anbazhagan, T. Parimelazhagan and K. Francis

2. Effects of water stress and salinity on photochemical activity of green gram.

Bioved (May 1996)
T. Parimelazhagan and K. Francis

1. Photochemical activities of chloroplast isolated from Bamboo.

J. Swamy Bot (April 1996)
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Patents

Granted - 4

1. An improved boiling device and a process for manufacture thereof 01-1970 291125 Parimelazhagan
2. A method to Isolate Isokaempferide from Acalypha alnifolia 01-1970 349229 Ponnusamy Revathi, Dr. Thangaraj Parimelazhagan



3. Dietary Supplements with Anti-Diabetic potential and efficacy supplemented from Oct 2020-2024 Palmyrah (Borassus flabellifer) Linn 26090 Dr. T. Parimelazhagan, K. Arunachalam, S. Saravanan

Projects

Completed - 13

1. Phytochemical and pharmacological investigations of *Rhodiola* sp., DRDO 9.97 Lakhs (October 2009 - October 2012)
2. Evaluation of *Passiflora* Species of Southern India for nutritional and antioxidant properties. UGC-MRP 13.42 Lakhs (December 2009 - December 2012)
3. Nutritional and phytochemical investigations of Buckwheat. DRDO 9.92 Lakhs (October 2011 - October 2013)
4. Qualitative Extraction from Tulsi leaves from Coimbatore region using organic solvents for quantification of bioactive compounds. DRDO 4.86 Lakhs (May 2012 - May 2013)
5. Combinatorial chemo preventive potential of *Ficus* species and natural non-nutritive compounds against breast cancer – a novel approach. DST – SERB 12 Lakhs (October 2013 - October 2016)
6. Development of nutraceuticals from under-utilized seed embryo of Palmyrah (*Borassus flabellifer* L. DRDO-BU CLS Phase-II Programme 25.30 Lakhs (February 2014 - February 2017)
7. Cell death induced by combination of photodynamic therapy with phytochemicals isolated from *Vaccinium nilgiriensis* on breast cancer therapy-an in vitro approach DST-NRF (Indo-South Africa) 33.65 Lakhs (September 2016 - September 2019)
8. Development and marketing of dietary supplement (*Borassus flabellifer* L.) and wound healing products (*Rubus fairholmianus* Gard.) from underutilized wild plants from Western Ghats, India RUSA 2.0 - BEICH 4.5 Lakhs (December 2019 - December 2020)
9. Biological fingerprinting of Mizo folklore plants (*Lannea coromandelica* (Houtt.) Merr. and *Trevesia palmata* Roxb.) and their therapeutic efficacy on modulation of cytokines, oxido-nitrosative stress, transcription factors and apoptosis in TNBS-induced ulcerative colitis rat model. Others 29.73 Lakhs (September 2018 - September 2021)
10. Medicinal plants: their role in human health and drug discovery for cancer. RUSA 2.0 - BCTRC 6.1 Lakhs (January 2020 - January 2021)
11. Diabetic wound healing activity of nanofibrous dressing loaded *Priva cordifolia* bioactive compounds through the down and up regulation of inflammatory cytokines, Nrf2, PI3K/AKT pathways. Others 10 Lakhs (October 2021 - October 2023)
12. Chemotherapeutic potential of *Osbeckia parvifolia* and *Breynia retusa* bioconjugated with nanoparticles against ovarian cancer. TANSCH 56.34 Lakhs (April 2021 - April 2024)
13. Attenuation of TLR/NF- κ B signaling pathway by anti-inflammatory compounds from *Balanophora fungosa* J.R. Frost & G. Frost.- An ethnomedicinal plant from Western Ghats DST – SERB 41.47 Lakhs (March 2022 - March 2025)

Ongoing - 3

1. Deciphering the immune response of *Ficus* fruit polysaccharides on major histocompatibility complex (MHC) in Inflammatory bowel disease (IBD). Others 38.05 Lakhs (October 2022 - October 2025)
2. Development of thermo-responsive hydrogel implants loaded with bioactive nanocomposites from *Osbeckia parvifolia* and molecular targeting of Her2/neu and β -catenin for ovarian cancer therapy CMRG 15.75 Lakhs (July 2025 - July 2027)
3. Molecular exploration of HIF1 signaling through *Antidesma montanum* extracellular vesicles and formulation of bioactive tonic for potencies against renal cell carcinoma CMRG 13.65 Lakhs (July 2025 - July 2027)