

**Name** : Dr. J. THAMBIRAJ

**Designation** : Assistant Professor

**Department** : Botany

**Date of Joining** : 26-07-2019

**Phone No** : 9952731912

**Email** : thambiraj84@gmail.com



**Educational Qualification:**

DEGREE	SUBJECT	COLLEGE / UNIVERSITY & PLACE	YEAR COMPLETED
B.Sc	Botany	Ayya Nadar Janaki Ammal College, Sivakasi	2005
M.Sc	Botany	Ayya Nadar Janaki Ammal College, Sivakasi	2007
M.Phil	Botany	Ayya Nadar Janaki Ammal College, Sivakasi	2008
Ph.D	Botany	Kongunadu Arts and Science College, Coimbatore	2012

**Specialization in Teaching:** Plant Physiology, Ecology, Biotechnology,

**Specialization in Research:**

- M.Phil – Specialization in Biofertilizer and Limnology
- Ph.D – Plant Tissue culture and Microbiology

**Research Interests:** Plant Ecology and Conservation Biology

### Other Work Experience:

Designation	Institution	Year - From (month/year)
		To (month/year)
Assistant Professor	Gobi Arts and Science College, Gobichettipalayam.	November 2011 – October, 2012
Assistant Professor	The Madura College, Madurai	August, 2013 – May, 2019

### Awards / Fellowships:

Junior Research Fellow, 2 years Project- Sponsored by Tamilnadu State Council for Science and Technology, Chennai.

### Other activities / academic credentials:

**Dr. J. Thambiraj**, Asst. Professor in Botany, The American College, Madurai

Ph.D: Botany (Spl. Plant Tissue culture) Kongunadu Arts and Science College, Coimbatore, Tamilnadu, India.

Title: ***In vitro* culture and evaluation of medicinal properties of two locally demanded plant species, *Acacia caesia* (L.) Willd.(Mimosaceae) and *Acalypha fruticosa* Forssk.(Euphorbiaceae) in western districts of Tamil Nadu, India.**

### Journal/Books Publication

1. **Thambiraj J.** and S. Paulsamy, 2010. Antimicrobial activity of the folklore medicinal plant, *Acacia caesia* (L.) Willd. *Plant Archives*. 10(2):675-678.
2. **Thambiraj J.** and S. Paulsamy, 2011. Evaluation of Antimicrobial efficacy of the folklore medicinal plant, *Acacia caesia* (L.) Willd. *Asian Journal of Pharmaceutical and Clinical Research* 4(3): 103-105.
3. **Thambiraj J.** and S. Paulsamy, 2011. Antimicrobial screening of stem extract of the folklore medicinal plant, *Acalypha fruticosa* Forssk. *International Journal of Pharmacy and Pharmaceutical Sciences* 3(4): 285-287.

4. **Thambiraj J.** and S. Paulsamy, 2012. *In vitro* antioxidant potential of methanol extract of the medicinal plant, *Acacia caesia* (L.) Willd. *AsianPacificJournalofTropicalBiomedicine* S 732 – 736.
5. **Thambiraj J.**, Paulsamy, S and Sevugaperumal, R.2012. Evaluation of *in vitro* antioxidant activity in the traditional medicinal shrub of western districts of Tamilnadu, India, *Acalypha fruticosa* Forssk. (Euphorbiaceae). *Asian Pacific Journal of Tropical Biomedicine* S127 – S130.
6. **Thambiraj J.**, Lingakumar, K and S. Paulsamy, 2012. Effect of seaweed liquid fertilizer (SLF) prepared from *Sargassumwightii* and *Hypneamuscififormis* on the growth and biochemical constituents of the pulse, *Cyamopsis tetragonoloba* (L). *Journal of Research in Agriculture*1: 065-070.
7. **Thambiraj J.** and S. Paulsamy, 2012. Rapid *in vitro* multiplication of the ethnomedicinal shrub, *Acacia caesia* (L.) Willd. (Mimosaceae) from leaf explants. *Asian Pacific Journal of Tropical Biomedicine* S 618 – 622.
8. Padmavathy K, S. Paulsamy and **J. Thambiraj**, 2013. *In vitro* shoot regeneration of *Corchorus acutangulus* Lam. (Tiliaceae). *Research and Reviews: Journal of Botanical Sciences* 2(3): 1-5.
9. Vinitha R., S. Paulsamy, **J. Thambiraj** and K. Karthika, 2013. In vitro propagation of strategies for the medicinal herb, *Ruellia tuberosa* L. (Acanthaceae). *International Journal of Biotechnology and allied fields* 1(8): 403-413.
10. Prema R, S. Paulsamy, **J. Thambiraj** and M. Saradha, 2013. Indirect organogenesis of the medicinal plant species, *Cryptolepis grandiflora* Wight. (Apocynaceae) by tissue culture technique. *International Journal of Pharmaceutical, Chemical and Biological Sciences* 3(4): 1001-1005.
11. Prema R, **J. Thambiraj**, S. Paulsamy and S. Jamuna, 2013. In vitro antioxidant potential of methanolic leaf extracts of *Pentatropis microphylla*. *International Journal of Pharmacy and Technology* 5(3): 5690-5696.
12. **Thambiraj J.** and S. Paulsamy. 2015. Antimicrobial efficacy of the folklore medicinal plant, *Acacia caesia* (L.) Wild. *Kongunadu Research Journal* 2(2): 110-113.
13. **Thambiraj J.** and S. Paulsamy. 2016. Antimicrobial activity of the folklore medicinal plant, *Acacia caesia* (L.) Wild. *Kongunadu Research Journal* 3(1): 49-52.
14. Venkatachalapathi A, S. Paulsamy and **J. Thambiraj**. 2016. Antimicrobial efficacy of the Ethnomedicinal plant species, *Canarium strictum* Roxb. *International Journal of Pharmacy and Pharmaceutical Sciences* 8(2): 339-341.
15. Prema R, S.S. Tamil Selvi, **J. Thambiraj**, S. Jamuna and S. Paulsamy, 2016. Evaluation of Antioxidant and Antiinflammatory properties of the traditional medicinal plant, *Cryptolepis grandiflora* Wight (Apocynaceae). *International Journal of Recent Advances in multidisciplinary Research* 3(3): 1295 – 1301.

16. Prema, R and **J. Thambiraj**. *In vitro* regeneration potential of the medicinal plant *Pentatropis microphylla* (Roth). Journal of Emerging Technologies and Innovative Research 6(3): 333-341, 2019.

### **International/National Proceedings**

1. Sureshkumar, R., V. Annaraj Gladson and **J. Thambiraj**, 2007. Hydro Biological Study of a Perennial pond in ANJAC Campus, Sivakasi. Proceedings of the National Seminar on Applied Zoology, held at Ayya Nadar Janaki Ammal College, Sivakasi, on 7– 9, February. pp. 33-36.
2. **Thambiraj, J.**, P. Gurusaravanan, C. Manimuthu and V. Annaraj Gladson, 2008. A comparative study on the variations in the physico-chemical and biological characteristics of a natural and artificial water bodies of ANJA College campus, Sivakasi. Proceedings of the National Conference on “Cultivation, Processing and Bioprospecting of Ethnomedicine, held at Sri Parasakthi College for Women, Courtallem, on 24-26, March. pp. 116-121.
3. **Thambiraj, J** and S. Paulsamy, 2012. Commonly used medicinal plants in Maruthamalai hills, Coimbatore district, Tamil Nadu. Proceedings of the National Seminar on “ Tropical Ecosystems structure, function and services, at Institute of Forest Genetics and Tree Breeding, Coimbatore on 28 & 29, December. pp. 389 – 399.

### **Presentation/Participation: Conference / Seminar/ Workshop**

#### **International level**

1. Paper presented at International Conference on “**Medicinal Plants and Herbal Drug: Challenges and opportunities in Cultivation Sustainable Utilization and Conservation**”, an entitled as “Regeneration of Plantlets from Internodalsegments of *Acaciacaesia* (L.) Wild”. Sponsored by UGC, DST, and CSIR, organized by PG and Research Department of Botany , Pachaiyappa’s College, Chennai on 4- 6 March -2010.
2. Paper presented at International Conference on “**Bioresource Technology**” an entitled as “Reproductive potential of locally demanded folklore medicinal plants in Coimbatore District, Tamil Nadu”. Sponsored by UGC, DST, CSIR, DRDO, INSA, TNSCST, and TNSCHE organized by the Department of Botany , Nirmala College for Women, Coimbatore on 7- 8 October, 2010.
3. Paper presented at International Symposium on “**Taxonomy, plant diversity and conservation**” an entitled as “Development of conservation devices for the locally demanded folklore medicinal plants in Coimbatore district, Tamil Nadu”. Organized by the department of Botany, Bharathiar University, Coimbatore on 26-28 November, 2010.
4. Paper presented at International Symposium on “**Environmental Risk Assessment**” an entitled as “Development of conservation devices for the locally demanded folklore medicinal plants in Coimbatore district, Tamil Nadu”. Organized by the department of Unit of Toxicology, Department of Zoology, School of life Sciences, Bharathiar University, Coimbatore on 17-19 October, 2011.

5. Paper presented at International Conference on “**Blooming species: A prosperous terrain for posterity**” an entitled as “*In vitro* antioxidant effect of methanol leaf extract of *Acacia caesia* (L.) Willd.” Organized by the department of Botany, Vellalar College for Women, Erode on 15<sup>th</sup> & 16<sup>th</sup> February, 2012.

### **National level**

1. Paper presented at National Seminar on “**Applied Zoology**” an entitled as “Hydro Biological study of a perennial pond in ANJAC campus”. Sponsored by UGC (Hyderabad), from 7-9, February 2007, held at Ayya Nadar Janaki Ammal College, Sivakasi.
2. Paper presented at National Seminar on “**Remediation and management of urban waste**” an entitled as “Hydro Biological study of a perennial pond in ANJAC campus”. Sponsored by UGC (Hyderabad), from 29-30, January 2008, held at PSGR Krishnammal College, Coimbatore.
3. Paper presented at National Conference on “**Cultivation, Processing and Bioprospecting of Ethnomedicine (NCCPBE)**” an entitled as “A comparative study on the variations in the physico-chemical and biochemical characteristics of natural and artificial water bodies of Ayya Nadar Janaki Ammal College campus, Sivakasi.”. Sponsored by UGC (New Delhi), from 24-26, March 2008, held at Sri Parasakthi College for Women, Courtallam.
4. Paper presented at Regional Conference on “**Bioresources and Biotechnology for the Sustainable Livelihood of Rural Community**” an entitled as “Influence of *Sargassum wightii* and *Hypneamusiformis* crude extract on vegetative growth and biochemical characteristics in *Cyamopsis tetragonoloba* (L).” Sponsored by TANSCH, Chennai, from 25-26, September 2008, held at Sri Parasakthi College for Women, Courtallam.
5. Paper presented at National level Seminar on “**Application of Medicinal Plants and their Diversity**” an entitled “Clonal Propagation of the Medicinal Plant Species, *Acacia caesia* Wild”. Sponsored by CSIR, New Delhi, Tamilnadu State Council for Higher Education, Chennai, held at Govt Arts College, Dharmapuri, on 6<sup>th</sup> January 2010.
6. Paper presented at National Seminar on “**Bioresources- Conservation and Management**”, an entitled “*In vitro* regeneration of locally demanded medicinal plant, *Acalypha fruticosa*. Forssk”. Sponsored by UGC, CSIR and DRDO, organized by Departments of Plant Biology and Plant Biotechnology and Advanced Zoology and Biotechnology, PSGR Krishnammal College for Women, Coimbatore on 8<sup>th</sup> and 9<sup>th</sup> January, 2010.
7. Paper presented at National conference on “**The Challenges, Chances and Perspectives in Biotechnology**”, an entitled “Callus regeneration from the nodal explants of the medicinal plant species, *Acalypha fruticosa* Forssk”. Organized by the Department of Botany, CN College, Erode on 22<sup>nd</sup> and 23<sup>rd</sup> January 2010.

8. Paper participated at UGC seminar on “**Assignments and Achievements of applied plant sciences**” sponsored by UGC held at Department of Botany, Nirmala College for Women (Autonomous) on 20 February, 2010.
9. Paper presented at National level seminar on “**Emerging trends in Plant Biotechnology**” an entitled “*Acalypha fruticosa* Forssk. – a treasure house of medicinal plant”. Organized by the Department of Botany, Government Arts College, Coimbatore on 4<sup>th</sup> and 5<sup>th</sup> February, 2010.
10. Paper presented at National level conference on “**Green Technology-Greentech 09**” an entitled “Studies on micropropagation of *Acacia caesia* (L.)- an important medicinal plant” organized by the Department of chemistry, N.G.M. College, Pollachi on 18<sup>th</sup> and 19<sup>th</sup> February, 2010.
11. Paper presented at National Symposium on “**Alternative Medicine**” an entitled “*Acalypha fruticosa* Forssk. Source of Household Remedies for Human Diseases”, organized by the department of Industrial Biotechnology, Karpagam University, on 1-2 March, 2010.
12. Poster presented at National Conference on “**Biodiversity for sustainable development: Threats, Indicators, Climate Change, Poverty Alleviation and Targets for Safeguarding Biodiversity**” an entitled “Organogenesis of locally demanded folklore medicinal plant, *Acacia caesia* (L.) Wild.” organized by the Centre for Biodiversity and Forest studies, School of Energy, Environment & Natural Resources, Madurai Kamaraj University, Madurai, on 25-27 August, 2010.
13. Paper presented at National Conference on “**Herbal Medicine**” an entitled “Antibacterial and antifungal activity of *Acalypha fruticosa* Forssk. – a traditional medicinal plant. Organized by Department of Botany, School of Life Sciences, Bharathiar University, Coimbatore on September 8-9, 2010.
14. Paper participated in National seminar on “**Tropical Ecosystems: Structure, Function and Services**” Organized by Institute of Forest Genetics and Tree Breeding, Coimbatore on 28 & 29 December, 2010.
15. Paper presented at National seminar on “**Biological Approaches for Monitoring and Protection of Environment**” an entitled “Biotechnological tools for conservation of locally demanded medicinal plant *Acalypha fruticosa*.” Organized by Departments of Plant Biology and Plant Biotechnology. PSGR Krishnammal College for Women Peelamedu, Coimbatore on 11<sup>th</sup> and 12<sup>th</sup> January 2011.
16. Paper presented at National conference on “**Intensive Integration of Environmental Solutions through Research**” an entitled “Conservation of locally demanded medicinal plant *Acalypha fruticosa* Forssk. through tissue culture technology” Joints organized by Environmental Cell Division PWD, WRD Govt. of India, and School of Life Sciences (Biochemistry, Biotechnology, Foods and Nutrition & Microbiology) RVS College, Sullur, Coimbatore on 26<sup>th</sup> February 2011.
17. Paper participated at National Level Seminar on “**Biosafety Management and good laboratory practices**”. Organized by Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore on 4<sup>th</sup> February, 2012.

18. Participated in the CPE and UGC sponsored seminar on “**Environmental issues, challenges and impact assessment**”. Organized by Department of Botany, Kongunadu Arts and Science College, Coimbatore on 28<sup>th</sup> April, 2012.
19. Paper presented at National seminar on “**Academic Excellence through quality sustenance and enhancement**” an entitled “Ethical Polices in India”. Organized by Internal quality Assurance Cell. N.G.M. College Pollachi, on 17<sup>th</sup> and 18<sup>th</sup> August, 2012.
20. Paper presented at Regional seminar on “**Science for shaping the future of India**” an entitled “Free radical scavenging activity of methanol leaf extract of *Acalypha fruticosa* Forssk”. Organized by Indian Science Congress Association and Kongunadu Arts & Science College, Coimbatore on 15<sup>th</sup> - 16<sup>th</sup> December, 2012.
21. Participated in the state level “**Faculty Development Programme (FDP)**”.Organized by Kongunadu Arts and Science College, Coimbatore on 11<sup>th</sup> August, 2012.
22. Paper presented at National Symposium on “**Cultural landscapes indigenous knowledge and biotechnological tools for biodiversity conservation**” an entitled “Germplasm conservation of Nodal segments” organized by Kongunadu Arts & Science College, Coimbatore on 7 - 8 March, 2014.
23. Participated at National Symposium on “**Conservation of Nature and Natural Resources**” Organized by Telangana Students Forum and Biological Resource Persons Association, Wanaparthy, Telangana on January 21 & 22, 2015.
24. Participated in UGC sponsored National level Seminar on “**New Horizons in Botany**” organized by The Department of Botany, The Madura College, Madurai on 25<sup>th</sup> January 2018.
25. Participated in UGC sponsored Seminar on “**Emerging Trends in Biotechnology**” organized by The Department of Botany, The Madura College, Madurai on 22<sup>nd</sup> January 2020.
26. Paper presentation at National conference on “**Empowerment of Rural Communities through Innovations in Science and Technology**” an entitled “Germplasm Conservation of *Acacia caesia* (L.) by encapsulation of *in vitro* segments” organized by Indian science congress association and Kongunadu Arts and Science College, Coimbatore 21<sup>st</sup> and 22<sup>nd</sup> February 2020.

### ***Workshop Attended***

1. Participated in the workshop on “**Seaweed biodiversity, its Uses, Over Exploitation and its Conservation through Cultivation.**” Sponsored by Ministry of Environment & Forests, Government of India, New Delhi, and organized by Central Salt & Marine Chemicals Research Institute- Marine Algal Research Station, Mandapam Camp, from 27- 28 December, 2007.
2. Participated in ICMR sponsored two day work shop on “**Scientific Validation of Traditional Herbal Medicine**”, Organized by Department of Botany, Bharathiar University, Coimbatore, on 16-17 December, 2009.

3. Participated in One day work shop on “**Tools to Explore similarity search and sequence alignment**”, Organized by Department of Bioinformatics, Dr, G.R.Damodaran College of Science, Coimbatore, on 30<sup>th</sup> January, 2010.
4. Participated in the workshop on “**Hands on Training on Gene and Protein Analysis**”, Organized by Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, on 20 - 22 January, 2011.
5. Participated in the workshop on “**Recent Trends in Plant Sciences**” Organized by Department of Botany, Bharathiar University, Coimbatore, on 8-10 February, 2011.
6. Participated in awareness workshop on “**Intellectual Property Rights (IPR)**”, Sponsored by PFC, TIFAC, DST and TNSCST and organized by UPASI Tea Research Institute, Valparai, on 23<sup>rd</sup> February, 2011.
7. Participated in two days “Science Academies” Lecture workshop on “**Prospects and future challenges in plant Biotechnology**”, Organized by Dr. G.R. Damodaran College of Science, Coimbatore, on 18 – 19 March, 2011.
8. Participated in National work shop on “**Intellectual Property Rights-Opportunities, Issues and Challenges**”, Organized by Department of Botany, Bharathiar University, Coimbatore, on 11-12 August, 2011.
9. Participated in the workshop on “**Development of Science and Technology location specific Research and demonstration Projects**” Organized by Department of Botany, Kongunadu Arts and Science College, Coimbatore, on 17<sup>th</sup> March, 2012.
10. Participated in one day workshop on “**Natural resource management for Environmental security**” Organized by ECO Club, Kongunadu Arts and Science College, Coimbatore, on 28<sup>th</sup> January, 2013.
11. Participated in two day UGC sponsored programme on “**Competance Building Programme**” Organized by The Madura College, Madurai, on 2 - 3 January, 2015.
12. Participated in Two days workshop on “**Molecular and Biochemical Approaches in Plant Sciences**” Organized by Centre for Research and PG studies in Botany, Ayya Nadar Janaki Ammal College, Sivakasi, on 22<sup>nd</sup> & 23<sup>rd</sup> January, 2018.
13. Participated in Two days workshop on “**Formulation & Evaluation of Herbal Drugs**” Organized by Centre for Research and PG studies in Botany, Ayya Nadar Janaki Ammal College, Sivakasi, on 7<sup>th</sup> & 8<sup>th</sup> March, 2019.

### **Webinar Attended**

1. Participated in International Webinar on “**Plant Molecular Biology in Space**” organized by the Department of Botany and Bio-informatics, Nirmala College for Women, Coimbatore on 14.05.2020.



2. Participated in Two Weeks Faculty Development Programme on “**Managing Online Classes and Co-Creating Moocs:2.0**” Sponsored by MHRD, Pandit Madan Mohan Malaviya and National Mission on Teachers and Teaching and organized by Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi on 18.05.2020 – 03.06.2020.
3. Participated in Faculty Development Programme on “**Life Science For Enhancing Human Life**” organized by the Department of Botany and Bio-informatics, Nirmala College for Women, Coimbatore on 28.05.2020 – 31.05.2020.
4. Participated in Webinar on “**Trends in Plant Biology**” organized by the Department of Botany, The American College, Madurai on 01.06.2020.
5. Participated in International Webinar on “**True facts about viruses and Pandemic Spread**” organized by the Department of Botany, Bishop Heber College, Tiruchirappalli on 10.06.2020.
6. Participated in Webinar on “**Issues and Challenges of Climate Change on Biodiversity**” organized by PG & Research Department of Botany, Kandaswami Kandar’s College, Velur, Namakkal on 11.06.2020.
7. Participated in Webinar on “**Additive Manufacturing For Biopimplant Manufacturing and its Challenges**” organized by Department of Mechanical Engineering & Research Committee, Arasu Engineering College, Kumbakonam on 13.06.2020.
8. Participated in the International Webinar on “**SARS-COV-2 Coronavirus: Emergence and antiviral strategies**” organized by PG & Research Department of Botany, V.O. Chidambaram College, Thoothukudi on 02.07.2020.
9. Participated in Webinar on “**Siddha Medicinal herbs to fortify the safety Measures against the Covid-19 Pandemic**” organized by Extension Service Forum, V.V. Vanniaperumal College for Women, Virudhunagar on 17.07.2020.
10. Participated in Webinar on “**Robots for Africulture**” organized by the Cell for Environmental Awareness, Department of Microbiology & Department of IT, The Standard Fireworks Rajaratnam College for Women, Sivakasi on 18.07.2020.
11. Participated in Webinar on “**Preparation of files for NAAC Accreditation**” organized by IQAC Cell of Providence College for Women, Coonoor on 18.07.2020.
12. Participated in Webinar on “**Ever Legal or Never Legal**” organized by Department of History & Cell for Environmental Awareness, The Standard Fireworks Rajaratnam College for Women, Sivakasi on 23.07.2020.