

**DR S SOOSAIRAJ**

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<b>Permanent Address</b>	<b>Dr S Soosairaj,</b> Pullumbadi Street, Purathakudi PO, Tiruchirappalli Dt. TamilNadu, India Pin: 621 111 Mobile: 9750124125 Aadhar No. 4377 8996 5262
<b>Present Address</b>	<b>Dr S Soosairaj,</b> Assistant Professor, Department of Botany, St. Joseph's College (Autonomous), Tiruchirappalli Dt. TamilNadu, India Pin: 620002
<b>Personal Data</b>	Age & DOB : 50, 12 <sup>th</sup> May 1970 Sex : Male Nationality : Indian Marital Status : Married
<b>References</b>	<b>Dr S John Britto, SJ</b> Director, Rapinat Herbarium, St. Joseph's College, Tiruchirappalli Dt Tamil Nadu, India. Pin: 620 002 Email: sjcbritto@rediffmail.com  <b>Dr A Ramachandran,</b> Director, Centre for climate change, Anna University, Chennai, Tamil Nadu, India. Phone: 919443391990

<b>Education</b>	
<b>Ph.D. 2003</b>	<b>Thesis Title:</b> <i>Phytosociological analysis and conservation strategies in Pacchaimalai hills, Eastern Ghats, using Remote sensing and GIS.</i> Work done at Dept. of Plant Biology & Plant Biotechnology, St Joseph's College (Autonomous), Tiruchirappalli, TN, India. (Bharathidasan University)
<b>M. Sc. 1998</b>	<b>Botany:</b> Studied at St Joseph's College (Autonomous), Tiruchirappalli, TN, India. Obtained <b>78%</b> . Thesis Title: <i>Tree biodiversity of riverine vegetation at Melanai of River Cauvery</i>
<b>B. Sc. 1991</b>	<b>Chemistry, Botany &amp; Zoology:</b> Studied at St Joseph's College, Bangalore University, Bangalore, Karnataka. Obtained 59%.
<b>Higher Secondary 1988</b>	<b>Physics, Chemistry, Biolog &amp; Electronics:</b> Studied at St Joseph's College & Higher Secondary School, Tiruchirappalli, TN. Obtained <b>71%</b>
<b>High School 1986</b>	<b>Board of Secondary Education, Tamil Nadu,</b> Studied at St Xaviers Higher Secondary School, Purathakudi. Obtained <b>76%</b> .
<b>M.Phil. Guideship 2004</b>	<b>Bharathidasan University, Tiruchirappalli. Plant Biology &amp; Plant Biotechnology. Ref. No. 11141/M.Phil/RA/2004</b> <b>Periyar University, Salem. Biotechnology</b> <b>MBT 1144/2006</b>
<b>Ph.D. Guideship 2006</b>	<b>Bharathidasan University, Tiruchirappalli. Plant Biology</b> <b>Ref. No. 4793/PhD1/Plant Bio/RA</b>
<b>Awards Recieved</b>	<ol style="list-style-type: none"> <li>1. <b>Fr. Du Franquet Medal for best Academic Performance at Post Graduate Course, 1999.</b></li> <li>2. <b>Vice Chancellor Dr KM Marimuthu Medal for Outstanding performance in Post Graduate Studies, 1999.</b></li> </ol>
<b>Additional Qualifications</b>	<b>1995 - Diploma in Computer Application</b> <b>2001 – Arc Info &amp; Arc View, Tricad Geomatics Solutions, Hyderabad.</b> <b>2001 – Erdas (Advancing &amp; Fundamentals with Erdas Imagine, IRS, Hyderabad</b> <b>Knowledge in MS word, Excel, Power point, Adope Photoshop, SPSS.</b>

	<b>RESEARCH EXPERIENCE</b>
<b>Major Projects</b>	<ol style="list-style-type: none"> <li>1. <i>Mapping plant diversity in the Eastern Ghats of Tamil Nadu</i>, sponsored by Ministry of Environment and Forest.</li> <li>2. <i>Evaluation of Natural Resources in Kolli hills, Tamil Nadu using Remote sensing and GIS</i>, sponsored by Ministry of Environment and Forest.</li> <li>3. <i>Biodiversity characterization at Landscape level in Western Ghats of Tamil Nadu</i>, sponsored by NRSA, Hyderabad.</li> <li>4. <i>Biodiversity characterization at Landscape level in Eastern Ghats of Tamil Nadu</i>, sponsored by NRSA, Hyderabad.</li> </ol>
<b>Minor Projects</b>	<ol style="list-style-type: none"> <li>1. <i>Studies on plant diversity and sociology and conservation of Kalamman Sacred grove at Malliganatham off Pudukottai district</i>, sponsored by UGC, New Delhi.</li> <li>2. <i>A Survey of Endemic and endangered plants and their conservation strategies of Karandamalai hills, Eastern Ghats of Tamil Nadu</i>, sponsored by UGC, New Delhi.</li> <li>3. <i>Human resources development for monitoring biodiversity in Eastern and Western Ghats</i>, sponsored by IISC, Bangalore.</li> </ol>
<b>Consultancy</b>	<ol style="list-style-type: none"> <li>1. <b>Identification of Plant names</b> – Forest department (working plan division), Educational institution.</li> </ol>
<b>2003-04 To 2005 -06</b>	<p style="text-align: center;"><b>TEACHING EXPERIENCE</b></p> <p>Worked as <b>Lecturer</b> for <b>nine academic years (2002-till date)</b>, in the Department of Botany, St. Joseph's College (Autonomous), Tiruchirappalli – 2, Tamil Nadu, India.</p> <p>Handled Papers like  Advances in Plant Systematics, Biodiversity and Conservation, Remote Sensing and GIS, Foundations of Humanity, Plant Diversity, Immunology &amp; Pharmacognosy</p>

## RESEARCH PROJECTS UNDERTAKEN

**Major Project - 2013-15.** Status and Distribution Survey of selected CR/EN/DD Taxa in Wild in Tamil Nadu under Tamil Nadu Biodiversity and Greening Project (TBGP), Tamilnadu Forest Department, Chennai. Ref.No.934/2012 D dt. 20.2.2013 Rs 3,80,640

**Major Project - 2012-15.** Geospatial modeling of ecological niche and distribution of some threatened species in Eastern Ghats of Tamil Nadu - sponsored by Department of Science and Technology, New Delhi. No. SR/FT/LS -160/2009. Rs 11, 70, 000.00

**Minor project - 2009-11.** Reproductive phenology and optimization of seed germination protocol in *Aristolochia tagala*, *Gnetum edule* and *Trichosanthes tricuspidata* - endangered climbers, sponsored by UGC. No.FMRP 3022/09. Rs 55,000.00.

## PAPERS PUBLISHED

### National

1. Dhatchanamoorthy N, Raja P, **Soosairaj S** and M. Anbarashan. 2018. *Crotalaria prostrata* var. *lavis* Haines (Leguminosae) : A poorly known species rediscovered, redescribed and endemic from the Northern Western Ghats. ***Current Botany*** 9: 26-27. ISSN 2240-4822.
2. Johny Kumar Tagore, Perumal Murugan and **Sebastin Soosairaj**. 2017. *Heterotis rotundifolia* (Sm.) Jacq.-Fel. (Melastomataceae) – A new record for Andaman and Nicobar Islands, India. ***Indian Forester*** 143(3): 284-285. ISSN 0019-4816 WOS indexed

3. Raja P, **Soosairaj S**, Dhatchanamoorthy N, Johny Kumar Tagore and A Kala. 2016. *Scleria tessellata* Willd. (Cyperaceae): a new record for Tamilnadu, India. ***Journal of Economic and Taxonomic Botany* 40(1-2): 59-61. ISSN 2050-9768**
4. **Sebastian Soosairaj**, Prakasam Raja, Johny Kumar Tagore, and Narayanasamy Dhatchanamoorthy. 2016. *Adiantum latifolium* (PTERIDACEAE): A New Record to Eastern Ghats from Tamil Nadu, India. ***Journal of the Andaman Science Association* 21(2):199-201. ISSN 0970-4183.**
5. Johny Kumar Tagore, **Soosairaj S**, Sathiyaseelan R and Raja P. 2015. Two Lamiaceae Members Additions to Flora of Andaman and Nicobar Islands. ***Journal of the Andaman Science Association* 20(2):145-147. ISSN 0970-4183.**
6. Raja P, **Soosairaj S**, Dhatchanamoorthy N and A Kala. 2015. Taxonomic status and distribution record of *Drimia wightii* Lakshmin. from Tamilnadu, India. ***J. Econ. Taxon. Bot.* 39(2): 323-326. ISSN: 2050-9768.**
7. Dhatchanamoorthy N, Raja P, **Soosairaj S** and N. Balachandran. 2015. Notes on the distribution of *Crotalaria globosa* Wight & Arn. –a rare and endemic legume in Tamilnadu. ***Phytotaxonomy* 15: 104-106. ISSN 0972-4206.**
8. **Soosairaj S** and P Ananthi. 2015. *Diodia teres* Walt. (Rubiaceae): A new record to the flora of Tamilnadu. ***J. Econ. Taxon. Bot.* 38(3-4): 549-551. ISSN 2050-9768**
9. **Soosairaj S**, Kala A, Sevuga Priya R. and P.Raja. 2014. Purity of honey – an attempt to validate. ***Retell* 14(1): 80-85. ISSN 0973-404X**
10. Ananthi, P. and **Soosairaj, S**. 2014. Effect of plant growth regulators on in vitro shoot multiplication of *Spilanthes calva* DC. ***Indian Journal of Advances in Plant Research (IJAPR)* 1(3): 46-50. ISSN: 2347- 8918.**

11. Dhatchanamoorthy N, Raja P, Kala A and **S. Soosairaj**. 2013. Angiospermic hydrophytes in different wetlands of Villupuram district, Tamilnadu, India. *J. Econ. Taxon. Bot.* 37(2): 239-248. ISSN: 2050-9768
12. Ramachandran A and **S Soosairaj**. 2013. Distributional new report of *Cymbidium macrorhizon* Lindl. (Orchidaceae) a terrestrial orchid to Peninsular India. *J. Econ. Tax. Bot.* 36(4): 853 – 855. ISSN: 2050-9768
13. Ramachandran A and **S Soosairaj**. 2013. *Luffa amara* Roxb. (Cucurbitaceae) – an addition to the Flora of Tamilnadu. *J. Swamy Bot. Club* 29: 31-34. ISSN: 0256-9493
14. **Soosairaj S**, Raja P, Kala A and Kalainger Raj P. 2012. Survey of macroscopic fungi from a few districts of Tamilnadu. *The Bioscan* 7(4); 669-671. ISSN 0973-7049. WOS indexed
15. **S. Soosairaj**, A. Maheswari and D. Natarajan. 2011. Antibacterial assay - a new tool for taxonomic verification of *Datura* (Solanaceae). *Ad. Plant Sci.* 24(2): 463-465. ISSN: 0970-3586
16. **S. Soosairaj** and K Karthik. 2011. Sustainable utilization of chicken waste. *J. Ecobiology* 28(4): 375-380. ISSN: 0970-9037
17. V. Yogaraj, B. Muthukumar, **S. Soosairaj**, B. Balaguru, N. Nagamurugan and K. Ramar. 2010. Phyto-sociological contribution of a virgin forest in Pudukkottai district in Tamilnadu. *Indian J. Environ. & Ecoplan.* 17(3): 489-494. ISSN 0972-1215.
18. **Soosairaj S**, Maheswari A and B Balaguru. 2010. Micromorphological assessment in *Datura* species of Tamilnadu, India. *J. Econ. Tax. Bot.* 34(4): 873-879. ISSN: 2050-9768

19. **Soosairaj S** and M Thamacin Arulappan. 2010. Ethnomedicinal plants of Villupuram district, Tamilnadu. *J. Phytological Research* **23**(1): 77-82. ISSN: 0970-5767
20. Natarajan D, Balaguru B, Nagamurugan N, **Soosairaj S** and E Natarajan. 2010. Ethno-medico-botanical survey in the Malligainatham village, Kandarakottai Taluk, Pudukkottai district, Tamilnadu. *Indian Journal of Traditional Knowledge* **9**(4): 768-774. ISSN: 0972-5938. WOS indexed
21. **Soosairaj S** and A Maheswari. 2010. Antibacterial activity of aqueous and ethanolic leaf extracts of *Datura innoxia* Mill. and *Datura fastuosa* L. *Journal of Microbial World* **12**(2): 113-117. ISSN: 0972-1487
22. **Soosairaj S** and A Maheswari. 2010. An extended distribution of *Albizia lathamii* Hole – a critically endangered tree species to the carnatic region of Tamilnadu. *J. Econ. Taxon. Bot.* **34**(2): 404-406. ISSN: 2050-9768
23. **Soosairaj S** and A Maheswari. 2010. An extended distribution of a rare exotic legume *Macroptilium lathyroides* (L.) Urban var. *semirectus* (L.) Urban. to central Tamil nadu, India. *Plant Archives* **10**(1): 267-268. ISSN: 0972-5210
24. Ananthi P and **S Soosairaj**. 2010. An extended distribution of a rare tree *Manilkara roxburghiana* (Wight) Dubard to the Eastern Ghats of Tamilnadu. *J. Swamy Bot. Cl.* **26**: 9-10. ISSN: 0256-9493
25. **Soosairaj S** and A Maheswari. 2009. Antibacterial activity of aqueous and ethnolic leaf extracts of *Datura metel* L. and *Datura metel* var. *fastuosa* (L.) Staff. *Plant Archives* **9**(2): 551-555. ISSN: 0972-5210
26. **Soosairaj S** and A Maheswari. 2009. An extended distribution of *Datura ferox* L. to the eastern ghats of Tamil Nadu. *Retell* **10**(1): 154-156. ISSN: 0973-404

27. John Britto S, **Soosairaj S**, Balaguru B and D Natarajan. 2009. *Anisochilus dysophylloides* Benth. (Lamiaceae): a little known species from the Shervarayans, Tamil Nadu. ***J. Econ. Taxon. Bot.* 33(1)**: 51-53. ISSN: 2050-9768
28. John Britto S, **Soosairaj S**, Balaguru B and N Nagamurugan. 2009. *Stenochlaena palustris* (Burm.) Beddome (Blechnaceae); A new record for the eastern ghats in Tamil nadu. ***Journal of Economic and Taxonomic Botany* 33(2)**: 318-320
29. Ramachandran A, Natarajan D, Nagamurugan N, Balaguru B, **Soosairaj S** and S John Britto. 2008. Assessment of tree species diversity in semi-evergreen forests of Chitteri hills, Eastern ghats of Tamilnadu, South India. ***Indian Journal of Forestry* 32(2)**: 175 – 180. ISSN 0971-9431.
30. Ramachandran A and **S Soosairaj**. 2008. *Mikania micrantha* Kunth. – a climbing exotic weed – a new report to the flora of Tamilnadu. ***J. Swamy Bot. Cl.* 25**: 15-18. ISSN: 0256-9493
31. Ramachandran A and **S Soosairaj**. 2008. An extended distribution of *Ipomoea rumicifolia* Choisy and *Jatropha heynei* Balakr. – to the Eastern ghats of Tamilnadu. ***J. Swamy Bot. Cl.* 25**: 19-22. ISSN: 0256-9493
32. **S Soosairaj**, D Natarajan, N Nagamurugan and B Radha. 2008. Aspergillosidal effect of *Pongamia glabra* and *Pedaliium murex* – A comparative study. ***Journal of Phytological Research* 21(2)**: 221-224. ISSN: 0970-5767 WOS indexed
33. Natarajan D, John Britto S, Nagamurugan N, **Soosairaj S** and B Balaguru. 2007. Mapping vegetation types in the Chitteri hills of the Eastern ghats of Tamilnadu using Remote sensing and GIS. ***Indian Forester* 133(1a)**: 159-163. ISSN 0019-4816. ISSN 0019-4816. WOS indexed
34. Natarajan D, Natarajan E and **S Soosairaj**. 2007. *Asparagus racemosus* Wild. A well known medicinal shrubby climber. ***Herbal Tech Industry*** Nov. 3 – 7.



35. Ramachandran A and **Soosairaj S.** 2007. An extended distribution of two rare species *Cleome tenella* L.f. and *Indigofera glabra* L. **J. Swamy Bot. Cl.** 24: 5 – 8. ISSN: 0256-9493
  
36. Ramachandran A, **Soosairaj S** and Jayakumar S. 2006. A new report of *Geophila repens* (L.) I.M. Johnston – A species rare to the eastern ghats of Tamil nadu. The **Indian Forester** 132(1): 118 – 120. ISSN 0019-4816. WOS indexed
  
37. Ramachandran A, **Soosairaj S** and Jayakumar S. 2006. Distribution and description of *Indigofera trita* Lf. spp. *subulata* (Vahl ex Poir) Ali.- An rare plant in the Kolli hills of Tamil Nadu. The **Indian Forester** 132(4): 507 – 508. ISSN 0019-4816. WOS indexed
  
38. **Soosairaj S**, N Nagamurugan, D Natarajan, B Balaguru & S John Britto. 2006. Sacred groves-Refugia of medicinal plants and a model for conservation – case study Tropical forests of Tamilnadu, South India. **Retell** 6(2): 51 – 56. ISSN: 0973-404
  
39. Chandrakala S, **S Soosairaj** and N Vanitha. 2006. Efficacy of a commercial tooth pastes and mouthwashes against *Streptococcus mutans*. **J. Micro. World** 8(2): 192 – 195. ISSN: 0972-1487
  
40. Vanitha N, **S Soosairaj** and S Chandrakala. 2006. Xylitol production from corn cobs using *Saccharomyces cerevisiae* and *Candida albicans*. **J. Micro. World** 8(2): 206 – 209. ISSN: 0972-1487
  
41. Ramachandran A and **S Soosairaj.** 2006. An extended distribution of *Canscora roxburghii* Arn. Ex Miq and *Tragia involucrata* var. *angustifolia* Hook.f. – to the eastern ghats of Tamilnadu. **J. Swamy Bot. Club** 23: 159 – 162. ISSN: 0256-9493

42. John Britto S, **Soosairaj S**, Natarajan D, Nagamurugan N and B Balaguru. 2006. Check list of plant species in Elagiri hills, Eastern Ghats of Tamilnadu. *Retell* 7(1): 77 – 87. ISSN: 0973-404
43. **Soosairaj S**, Nagamurugan N, Balaguru B and D Natarajan. 2006. Contribution of lianas and climbers to species richness in tropical forests of Pacchaimalai hills, Eastern ghats, Tamilnadu. *Ecol. Env. & Cons.* 12(4): 599 – 603. ISSN: 0971-765x
44. Ramachandran A and **S Soosairaj**. 2006. *Hibiscus surattensis* Linn. and *Hibiscus panduriformis* Burm.f. – little known species from the Eastern Ghats of Tamilnadu. *Indian Forester* 132(1): 1506-1510. ISSN 0019-4816. WOS indexed
45. Natarajan D, Srinivasan K, Mohanasundari C, Perumal G & **Soosairaj S**. 2005. Effect of plant extracts on the growth of *Colletotrichum falcatum*. *J. Microb. World* 7(2): 137 – 139. ISSN: 0972-1487
46. Muthukumar B, Dhanasekar D, **Soosairaj S**, Nagamurugan N and Balaguru B. 2005. Woody vegetation structure in a sacred grove of Pudukkottai district, Tamil nadu, South India. *Indian J. Eviron. and Ecoplan.* 10(2): 409 – 412. ISSN 0972-1215.
47. **Soosairaj S**, John Britto S, Balaguru B, Nagamurugan N and Natarajan D. 2004. Mapping forest types of Pacchaimalai hills, Eastern ghats, India – using remote sensing and GIS. *Eco. Env. & Cons.* 10(2): 131 – 135. ISSN: 0971-765x WOS indexed
48. Natarajan D, John Britto S, Balaguru B, Nagamurugan N and **Soosairaj S**. 2004. Distribution of sacred groves in the Chitteri hills of the Eastern ghats of Tamil nadu. *J. Environ. & Ecoplan.* 8(2): 375 – 379. ISSN 0972-1215.
49. John Britto S, **Soosairaj S**, Balaguru B and Arockiasamy DI. 2003. Quantitative analysis of non-timber forest products in four forest types of Pacchaimalai hills,

eastern ghats, Tamil nadu. *The Indian Forester* 129(4): 489 – 494. ISSN 0019-4816. WOS indexed

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51. John Britto, S., **S. Soosairaj**, B. Balaguru, D.Natarajan, N.Nagamurugan and S.Ravipaul. 2003. First report of *Syzygium alternifolium* (Wight) Walp. (Myrtaceae) in southern Eastern ghats of Tamil nadu. *J. Exon. Taxon. Bot.* 27: 1229-31. ISSN: 2050-9768.
52. Britto, SJ., B. Balaguru and **S. Soosairaj**. 2003. Extended distribution of *Desmodium tortuosum* (Sw.) DC. (Papilionoideae) in Eastern ghats of Tamil nadu. *J. Exon. Taxon. Bot.* 27: 1232-34. ISSN: 2050-9768.
53. Jayakumar S, **Soosairaj S**, Arockiasamy DI and John Britto S. 2002. Similarity analysis in two tropical dry evergreen forest in the Eastern Ghats of Tamil nadu. *Journal of Hill Research* 15(1): 4 – 11. ISSN 0970-7050.
54. John Britto S, **Soosairaj S** and Arockiasamy DI. 2002. Comparative analysis of distribution of tree species in two plots of one hectare in SriRangam island of the river Cauvery. *Ad. Plant Sci.* 15(1): 79 – 84. ISSN: 0970-3586 WOS indexed
55. John Britto S, **Soosairaj S**, Natarajan D, Nagamurugan N and Ravipaul S. 2002. *Euphorbia fusiformis* Buch.-Ham. Ex D.Don (Euphorbiaceae): A new record for Tamil nadu. *J. Econ. Taxon. Bot.* 26(2): 469 – 471. ISSN: 2050-9768
56. John Britto S, Balaguru B, **Soosairaj S** and Arockiasamy DI. 2001. Diversity of plants in a sacred grove in Pudukkottai district, Tamil nadu, South India. *J. Econ. Taxon. Bot.* 25(1): 58 – 62. ISSN: 2050-9768

57. John Britto S, Balaguru B, **Soosairaj S** and Arockiasamy DI. 2001. Floristic analysis of a sacred grove at Vamban in Pudukkottai district of Tamil nadu, South India. *J. Econ. Taxon. Bot.* 25(1): 81 – 90. ISSN: 2050-9768
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### **International**

60. Lourdusamy John Peter Arulanandam, **Sebastian Soosairaj**, Prakasam Raja and Balakrishnan Balaguru. 2022. *Therophonum blumei* (Araceae), a new species from Tamil Nadu, India. *Nordic Journal of Botany* 2023 (2): 1-7. ISSN 1756-1051. <https://doi.org/10.1111/njb.03612> IF: 0.847
61. Dhatchanamoorthy N., Karthikeyan C., Raja P., **Soosairaj S.** & Balachandran N. 2022. *Lepidagathis decumbens* N. Dhatchan. & S. Soosairaj, sp. nov. (Acanthaceae), a new species from Tamil Nadu, India. *Adansonia* 44 (24): 321-329. ISSN 1280-8571 IF 0.345
62. Raja P, **Soosairaj S** and N Dhatchanamoorthy. 2022. Distribution of *Lindernia minima* (Benth.) Mukerjee (Family Linderniaceae): an endangered and endemic herb from Tamil nadu, India. *J. Bombay Nat. Hist. Soc.*, 119 (2). ISSN: 0006-6982 Web of Science Indexed
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induction of *Lindernia minima* (Benth.) Mukerjee - an endangered plant species endemic to Tamil Nadu, India. *South African Journal of Botany* 149: 731-739. ISSN 0254-6299, IF 3.111

64. Lincy J, **Soosairaj S**, Dhivya R and J P Arulanandam. 2022. A new species of *Psydrax* (Rubiaceae: Vanguerieae) from Tamil Nadu, India. *Phytotaxa* 533 (4): 223–229. ISSN 1179-3155 **IF: 1.185** Scopus, Web of Science Indexed
65. Raja P, Johny Kumar Tagore A, **Soosairaj S**. and N. Dhatchanamoorthy. 2022. *Jasminum greenii* sp. nov. (Oleaceae): a new species from Tamil Nadu, India. *Indian Forester* 148(1): 107-108. ISSN 0019-4816. WOS indexed
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71. **S. Soosairaj**, P. Raja, S. John Britto and B. Balaguru. 2018. A new species of *Dalbergia* (Fabaceae: Dalbergieae) from Tamil Nadu, India. *Phytotaxa* **360(3)**: 282-286. ISSN 1179-3155 **IF: 1.185** Scopus, Web of Science Indexed
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81. Kumaraguru A, Brinda T, Balaguru B, **Soosairaj S** and John Britto S. 2015. Vascular plant distribution in a endangered fragile ecosystem of Shervarayan hills, Eastern ghats of India. *International Journal of Recent Scientific Research* 6(10): 7006-7012. ISSN 0976-3031.
82. Balaguru B, Nagamurugan N, Kumaraguru A, **Soosairaj S** and Brinda T. 2015. Estimation of Tropical deforestation and prediction of biotic pressure zone for effective forest management in Eastern ghats of India. *International Research Journal of Biological Sciences* 4(12): 14-21. ISSN 2278-3202.
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86. Dhatchanamoorthy N, K. Sambandan, Raja P, and **Soosairaj S**. 2015. *Drymaria villosa* Chamisso & Schlechtendal (Caryophyllaceae) – a new report to the Eastern ghats of Tamilnadu. *International Journal of Current Research in Biosciences and Plant Biology* 2(9): 74-76. ISSN 2349-8080.
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100. Dons T and **S Soosairaj**. 2013. Treatment of jaundice by traditional healthcare system. *International Journal of Biology, Pharmacy and Allied Sciences* 2(6): 1373-1378. ISSN: 2277-4998
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### **Papers published in Edited Books**

114. Raja P, Balaguru B and **S Soosairaj**. 2019. Diversity and distribution of Tropical Dry forest: a case study from Pudukkottai district of Tamil Nadu, India – Sacred groves. In: Rahul B, Sachchidanand T, Pratap S and S Pardeep (Eds), *Hand book of Research on The Conservation and Restoration of Tropical Dry Forest*, IGI Global Publishers, Hershey, USA. ISBN13: 9781799800149; EISBN13: 9781799800163, pgs 115 – 124
115. Balaguru Balakrishnan, **Soosairaj Sebastin**, Nagamurugan Nandakumar and Khaleel Ahamed Abdul Kareem. 2016. Species distribution models (SDM) – A strategic tool for Predicting suitable habitats for conserving the target species. In: Sami Faiz and Khaoula Mahmoudi (eds) *Handbook of Research on Geographic information systems applications and advancements*. IGI Global Information Science, Hershey, USA. Pg 427 – 440. ISSN 2327-5715.
116. Balaguru, B., S. **Soosairaj**, N. Nagamurugan and D. Natarajan . 2016. Assessment of Vegetation Pattern and Structural Changes of Wet Evergreen Forests of Palani Hills, Western Ghats of Tamil Nadu. In: **Forest Ecosystem: Biodiversity, Ecology and Conservation** (Eds. Dr. M.V. Durai, Dr. C. Sivaperuman, Dr. K.A. Sujana), Write & Print Publications, New Delhi. Pp. 48 – 62.
117. Balaguru, B., N. Nagamurugan, R. Ravindaran and S. **Soosairaj**. 2016. Estimation of Tropical Deforestation and Prediction of Biotic Pressure Zone for Effective Forest Management in Eastern Ghats of India In: *Forest Ecosystem: Biodiversity,*

- Ecology and Conservation* (Eds. Dr. M.V. Durai, Dr. C. Sivaperuman, Dr. K.A. Sujana), Write & Print Publications, New Delhi. Pp.86 – 96.
118. Balaguru, B., S. Soosairaj, L. Antolnie Label and R. Ravindaran Vascular Plant Distribution in Endangered Fragile Ecosystem of Shervarayan Hills, Eastern Ghats of India In: *Forest Ecosystem: Biodiversity, Ecology and Conservation* (Eds. Dr. M.V. Durai, Dr. C. Sivaperuman, Dr. K.A. Sujana), Write & Print Publications, New Delhi. Pp. 118 – 130.
119. Rajavel L, Muthukumar B, Natarajan E, Soosairaj S, Balaguru B and N.Nagamurugan. 2015. Plant diversity assessment at Arulmigu Sri Veeramakali Amman Sacred grove, Silatur, Pudukkottai district of Tamilnadu; Parimelazhagan Thangaraj (Ed.), *Modern methods in Phytomedicine*, Daya Publishing House, New Delhi. Pp 69 – 75.
120. John Britto S, Balaguru B, Nagamurugan N, Soosairaj S and Natarajan D. 2006. Analysis of vegetation pattern and influence of some abiotic factors using remote sensing and GIS. In: Prithipasingh (ed.) *Perspectives in plant ecology and environmental biology*, Scientific Publishers (Ind.) Jodhpur. Pp 225 – 238.
121. Balaguru B, John Britto S, Soosairaj S, Natarajan D and Nagamurugan N. 2005. Cultural and ecological significance of sacred forests with special reference to a sacred grove in Pudukkottai district in Tamilnadu. In: Kunhikannan C and Gurudev Singh B (eds.), *Strategy for conservation of sacred groves*, Institute of Forest Genetics & Tree Breeding, Coimbatore pp. 117 – 120.
122. Kashmir Raja SV, S Soosairaj and Michael Asokan. 2004. Biodiversity and Conservation. In: *Environmental studies*, UGC Curriculum, St.Joseph's College, Tiruchirappalli pp 53-70.

**PAPERS PRESENTED IN SYMPOSIA/ SEMINAR/CONFERENCE**

**International**

1. Raja P and **S Soosairaj**. 2016. Potential wild ornamental plants of Pudukkottai district, Tamilnadu, India. International conference on Frontiers in life science, Department of Botany, St.Joseph's College, Tiruchirappalli – 02, on Jan 7<sup>th</sup> & 8<sup>th</sup> Pp 37
2. Ananthi P, **Soosairaj S** and Ramachandran R. 2014. In vitro callus induction and plantlet regeneration from nodal explants of *Spilanthes calva* DC. medicinal plants. In: International conference on “Biodiversity, Bioresources and Biotechnology”, Association for the Advancement of Biodiversity Science, Goa, 30-31 Jan. 2014.
3. Kala A. and **S Soosairaj**. 2013. Seed dormancy breaking protocol for *Capparis shevaroyensis* Sund. Ragh. – a rare and vulnerable shrub. In International Conference on Sustainable utilization, management and conservation of bioresources, 10-11<sup>th</sup> Jan. 2013, Dept. of Botany, St.Joseph's College, Tiruchirappalli. Pp 87.
4. Raja P. and **S Soosairaj**. 2013. Causes of deforestation in the Eastern ghats of Tamilnadu. In International Conference on Sustainable utilization, management and conservation of bioresources, 10-11<sup>th</sup> Jan. 2013, Dept. of Botany, St.Joseph's College, Tiruchirappalli. Pp 88.
5. Sasikumar M, **S Soosairaj** and P Ananthi. 2013. Ethnobotanical studies related to women health care in Pudukkottai district of Tamilnadu. In International Conference on Sustainable utilization, management and conservation of bioresources, 10-11<sup>th</sup> Jan. 2013, Dept. of Botany, St.Joseph's College, Tiruchirappalli. Pp 88.

6. Dhatchanamoorthy N and **S Soosairaj**. 2013. Flowering plants of sandy coast of Nagapattinam district of Tamilnadu, India. In International Conference on Sustainable utilization, management and conservation of bioresources, 10-11<sup>th</sup> Jan. 2013, Dept. of Botany, St.Joseph's College, Tiruchirappalli. Pp 89.
7. Johny Kumar Tagore and **S Soosairaj**. 2013. Invading mars: who could be our foot-soldiers a perspective on astrobiology. In International Conference on Sustainable utilization, management and conservation of bioresources, 10-11<sup>th</sup> Jan. 2013, Dept. of Botany, St.Joseph's College, Tiruchirappalli. Pp 90.
8. Venkat Ramana M, Johny Kumar Tagore and **S Soosairaj**. 2013. Zingiberaceae of Andaman Nichobar islands and its ex situ conservation. In International Conference on Sustainable utilization, management and conservation of bioresources, 10-11<sup>th</sup> Jan. 2013, Dept. of Botany, St.Joseph's College, Tiruchirappalli. Pp 90.
9. **Soosairaj S**, B Balaguru, N Nagamurugan and R Ravindran. 2013. Impact of invasive alien species on shoal vegetation in upper palneys, Western ghats of tamilnadu, India. In International Conference on Sustainable utilization, management and conservation of bioresources, 10-11<sup>th</sup> Jan. 2013, Dept. of Botany, St.Joseph's College, Tiruchirappalli. Pp 91.
10. Dhatchanamoorthy N and **S Soosairaj**. 2013. Studies on the family Acanthaceae in Viluppuram district of Tamilnadu. In International Conference on Sustainable utilization, management and conservation of bioresources, 10-11<sup>th</sup> Jan. 2013, Dept. of Botany, St.Joseph's College, Tiruchirappalli. Pp 92.
11. Balaguru B, Nagamurugan N and **S. Soosairaj**. 2011. Invasion of non-native plant species and habitat changes in the western ghats of Tamil nadu, India. 11<sup>th</sup> International Conference on the Ecology and Management of Alien Plant Invasions, organized by Cultural and Youth Centre of Vas Country, Szombathely, Hungary, on 30<sup>th</sup> August to 3<sup>rd</sup> September.
12. **Soosairaj S**, John Britto S, Nagamurugan N, Natarajan D and Balaguru B. 2003. Modelling potential sites for Joint Forest Management using RS and GIS in the

Pacchaimalai hills of the eastern ghats. In: *International conference on sustainable development and management of natural resources*. Holy Cross College, Tiruchirappalli. Mar. 15 – 17. pp 92.

13. Balaguru B, John Britto S, Natarajan D, Nagamurugan N and **Soosairaj S**. 2003. Modells for sustainable management of forest resources in the Shevarayan hills using Remote sensing and GIS. In: *International conference on sustainable development and management of natural resources*. Holy Cross College, Tiruchirappalli. Mar. 15 – 17. pp 116.

## **National**

14. Dons T and **Soosairaj S**. 2016. GC-MS analysis of bioactive compounds in ethanolic rhizome extracts of *Curcuma longa* (Zingiberaceae), UGC sponsored National Seminar on Recent Trends in Botany, PG & Research Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli – 20, on 24<sup>th</sup> Feb. pp 14.
15. Kala A, **Soosairaj S** and Mathiyazhagan S. 2015. Effect of biosynthesized copper nanoparticles on paddy germination and its shoot and root length. National Symposium on Challenges and management approaches for crop diseases of National importance – status and prospectus, organized by Tamilnadu Agricultural University, Coimbatore and Indian Society of Mycology and plant pathology, Udaipur on 12 -14<sup>th</sup> February 2015. pp 66-67.
16. Dons T and **Soosairaj S**. 2015. Antibacterial evaluation of Different solvent extracts of medicinal plant: *Justicia tranquebariensis*. National symposium on recent advances in medicinal and aromatic plants. Dept. of Botany, St.Joseph's College, Tiruchirappalli, on 5<sup>th</sup> February 2015. pp 38
17. Kamarasu S, Raja P, and **Soosairaj S**. 2015. Dry grass land species composition of upper Palni hills of Western ghats, South India. National symposium on recent advances in medicinal and aromatic plants. Dept. of Botany, St.Joseph's College, Tiruchirappalli, on 5<sup>th</sup> February 2015. pp 39



18. Raja B, Raja P, and **Soosairaj S.** 2015. Angiosperms of Urumar Sacred grove, Pudukkottai district of Tamilnadu, South India. National symposium on recent advances in medicinal and aromatic plants. Dept. of Botany, St.Joseph's College, Tiruchirappalli, on 5<sup>th</sup> February 2015. pp 40
19. Kala A and **Soosairaj S.** 2015. Biosynthesis of Silver Nanoparticle from ethanol extract of *Pongamia pinnata* (L.) Pierre and its activity against leaf blight disease of rice. National symposium on recent advances in medicinal and aromatic plants. Dept. of Botany, St.Joseph's College, Tiruchirappalli, on 5<sup>th</sup> February 2015. pp 53
20. Raja P and **Soosairaj S.** 2014. Checklist of flora of Sittanavasal, Pudukkottai district, Tamilnadu, India. National Symposium on Resent Advances in Medicinal and aromatic plants. organized by Department of Botany, St.Joseph's College, Tiruchirappalli, on 5<sup>th</sup> February, 2014, pp45.
21. Dhatchanamoorthy N. and **Soosairaj S.** 2014. Threatened plants of the Southern Eastern ghats, Tamilnadu, India. National Symposium on Resent Advances in Medicinal and aromatic plants. organized by Department of Botany, St.Joseph's College, Tiruchirappalli, on 5<sup>th</sup> February, 2014, pp17.
22. Dons T. and **Soosairaj S.** 2014. Ethnobotanical studies on plant resources of Semmalai hills, Karur District, Tamilnadu. National Symposium on Resent Advances in Medicinal and aromatic plants. organized by Department of Botany, St.Joseph's College, Tiruchirappalli, on 5<sup>th</sup> February, 2014, pp31.
23. Kala A, Sathya S and **Soosairaj S.** 2014. Preliminary phytochemical analysis of fruit extracts of *Morinda tinctoria* Roxb. and *Datura inoxia* Mill. National Symposium on Resent Advances in Medicinal and aromatic plants. organized by Department of Botany, St.Joseph's College, Tiruchirappalli, on 5<sup>th</sup> February, 2014, pp21.
24. DonsT and **Soosairaj S.** 2013. Traditional health practice of Thottianaikans of Semmalai hills, Tamilnadu. UGC sponsored National Symposium on Herbs: a natural

wonder for Disease and Pest control. Dept. of Biotechnology, Periyar University, Salem, 20<sup>th</sup> August. pp3.

25. Chandra Sekar GK and **S Soosairaj**. 2013. Phytochemical screening and antimicrobial activity of *Geophila repens* (L.) I.M.Johnst. National seminar on “Therapeutic biocompounds”, organized by Department of Biochemistry, St.Joseph’s College, Tiruchirappalli on 1<sup>st</sup> and 2<sup>nd</sup> of March, 2013, pp 18.
26. Dhathchanamoorthy N, Raja P, **Soosairaj S** and Kala A. 2013. Studies on conservation status of endangered, endemic and rare plants of Tropical Dry Evergreen forest (TDEF) Tamilnadu, India. National conference on biodiversity conservation and sustainable development. Dept. of Botany, St.Andrew’s College, Gorakhpur, 6<sup>th</sup> and 7<sup>th</sup> Feb. 2013, pp 40-41.
27. **Soosairaj S**. 2012. Influences of topographic factors on vegetation in tropical forests of Pacchaimalai hills. In National Conference on Climate change, biodiversity and conservation, 15 and 16<sup>th</sup> Feb., 2012. St.Andrew’s College, Gorakhpur, UP.
28. **Soosairaj S** and Maria Peter. 2011. Check list of coastal flora of Pudukkottai district, Tamilnadu, India. National Conference on Climate change, Biodiversity and Conservation, 16<sup>th</sup> and 17<sup>th</sup> Feb., 2011, Organised by Dept. of Botany, St.Andrew’s College, Gorakhpur, UP.
29. Thamacin A and **Soosairaj S**. 2007. Ethnobotanical studies in Villupuram district. In: National seminar on ‘New Frontiers in Biological Science’, Holy Cross College, Trichy. 19<sup>th</sup> – 20<sup>th</sup> Jan. 2007.
30. Thamacin A and **Soosairaj S**. 2007. A survey of Traditional medicinal plants in Villupuram district. In: National seminar on ‘Recent advances in Medicinal plants research’, Dept. of Botany, Annamalai University, Chidamparam. March 3<sup>rd</sup> – 4<sup>th</sup>.
31. Thamacin A and **Soosairaj S**. 2007. Medicinal plant of ethnopaediatric importance in Villupuram district, Tamilnadu. In: Recent trends in Biotechnology and its role in

Utilization of biodiversity’, PG & Research Dept. of Botany, Jamal Mohamad College, Trichy. March 5<sup>th</sup> – 6<sup>th</sup>, 2007.

32. Karthik K and **Soosairaj S.** 2006. Chicken feather compost production – a triple purpose enterprise. In: National seminar on *Recent advances in Plant biology*, Dept of Botany, Viruchunagar Hindu Nadars’ Senthikumara Nada College, Virudhunagar, 10 – 11<sup>th</sup> Aug.
33. Dhanasekar S, Muthukumar B, Balaguru B, **Soosairaj S** and Nagamurugan N. 2003. Study on structure and total important value of the woody vegetation in a sacred grove in Pudukkottai district of Tamil nadu. In: Regional seminar on ‘*People, Plants and Future*’ The Gandhigram Rural Institute, Deemed University, Gandhigram 21 – 29, Feb. pp 39.
34. John Britto S, Balaguru B, **Soosairaj S**, Nagamurugan N and Natarajan D. 2003. Identification of Biodiversity gaps in eastern ghats using remote sensing and GIS. In: *National Seminar on remote sensing and geographical Information system in natural resource management – current status & emerging trends*, Mahatma Gandhi University, Kottayam, Mar. 15 – 17.

#### ORIENTATION AND REFRESHER COURSES

1. UGC sponsored **Online Refresher Course in Teacher Education (Multidisciplinary) Learning Outcomes and Educational Reforms: Pedagogy, Assessment and Quality Assurance**, by UGC Academic Staff College, Bharathidasan University, Tiruchirappalli – 620 023, From 24.02.2021 – 09.03.2021. A grade.
2. UGC sponsored **Short Term Course on Intellectual Property Rights**, by UGC Academic Staff College, Bharathiar University, Coimbatore-641 046, Tamilnadu. From 12.09.2019 to 18.09.2019, A grade.
3. UGC sponsored **Refresher Course in Biotechnology**, by UGC Academic Staff College, Bharathiar University, Coimbatore-641 046, Tamilnadu. From 17.11.2017 to 07.12.2017, A grade.

4. UGC sponsored **Refresher Course in Botany**, by UGC Academic Staff College, Bharathiar University, Coimbatore-641 046, Tamilnadu. From 09.11.2010 to 29.11.2010, A grade.
5. UGC sponsored **Orientation Course**, by UGC Academic Staff College, Bharathidasan University, Tiruchirappalli-23, Tamilnadu. From 16.05.2008 to 12.06.2008, A grade.

#### RESOURCE PERSON

1. Soosairaj S. 2017. Resource Person for UGC sponsored National Seminar on **Importance of Taxonomy** organized by Department of Botany, St.Mary's College, Sulthan Bathery, Wayanad, Kerala-673592, from March 8-10, March 2017 and delivered a talk on "**Relevance of Plant Taxonomy**".
2. Soosairaj S. 2013. Resource Person one day state level workshop on "**Pharmacognostical screening of medicinal plants**", organized by Department of Botany, St.Joseph's College, Tiruchirappalli -02. 4<sup>th</sup> March, 2013.

#### WORKSHOP/SYMPOSIUM/SEMINAR PARTICIPATED

1. International webinar on **Unlocking approaches in Biological Research** organized by school of Biological Sciences, St.Joseph's College (Autonomous), Tiruchirappalli, from 24 – 26 July, 2020.
2. Online webinar on **Biopython**, organized by Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli, on May 30<sup>th</sup>, 2020.
3. Online Faculty Development Programme on Inclusive procedures and processes in Assessment and Accreditation by NAAC, St.Joseph's College (Autonomous), Tiruchirappalli, from 30<sup>th</sup> June – 4<sup>th</sup> July, 2020.
4. International Colloquium on **The Challenges of Higher Education in the 21<sup>st</sup> Century**, organized by St.Joseph's College (Autonomous), Tiruchirappalli, on 17<sup>th</sup> September, 2019.

5. International webinar on **impact of climate change on biodiversity and world food security**, organized by Department of Botany, St. Joseph's College (Autonomous), Tiruchirappalli, from 15<sup>th</sup> July, 2020, online.
6. National Conference on **ESRI user Conference India Live 2020**, ESRI India Technologies Ltd, Hyderabad from 14 – 16 July, 2020, online.
7. International webinar on **Biological Sciences**, organized by Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli, from 6 – 8<sup>th</sup> July 2020, online.
8. International Webinar on **Medicinal plants research and drug discovery**, organized by Department of Botany, St. Joseph's College (Autonomous), Tiruchirappalli, from 3 – 6<sup>th</sup> August, 2020, online.
9. **STEM Teacher Training workshop on Research Based Pedagogical Tools**, organized by Sacred Heart College, Kochi, Kerala, from 11<sup>th</sup> – 14<sup>th</sup> October 2017.
10. Science Academics' Lecture Workshop on **New Vistas in Biodiversity and Bioresources** organized by Dept. of Botany, St. Joseph's College, Tiruchirappalli-02, from 2<sup>nd</sup> to 4<sup>th</sup> August, 2017
11. National Symposium on **Medicinal and Aromatic Plants** organized by Dept. of Botany, St. Joseph's College, Tiruchirappalli-02, on 15<sup>th</sup> February, 2017
12. State level Workshop on **Plant tissue culture techniques**, organized by Dept. of Botany, St. Joseph's College, Tiruchirappalli-02, on 8<sup>th</sup> February, 2017
13. National Workshop on **Data Science Research-Biological Data Management**, sponsored by DST, Dept. of Botany, Jamal Mohamed College, Tiruchirappalli – 20, on 23<sup>rd</sup> to 25<sup>th</sup> January, 2017.
14. National Seminar on **Global food security and the role of biotechnology in sustainable food systems and nutrition**, Dept. of Biotechnology, St. Joseph's College, Tiruchirappalli-02, on 5<sup>th</sup> January, 2017.
15. National conference on **Higher education in the knowledge Age: Techno-pedagogical Perspectives and innovations**, St. Joseph's College, Tiruchirappalli-02, on 24<sup>th</sup> & 25<sup>th</sup> February, 2016.
16. DBT-STAR college scheme One day seminar on **Bioinformatics: Challenges and applications**, Department of Botany, St. Joseph's College, Tiruchirappalli-02, on 15<sup>th</sup> February, 2016.

17. Science Academies' Lecture workshop on **Bioprospecting and Bioresources**, Department of Botany, St. Joseph's College, Tiruchirappalli-02, on 10<sup>th</sup> to 12<sup>th</sup>, February, 2016.
18. One day state level workshop on **Plant tissue culture technique**, Department of Botany, St. Joseph's College, Tiruchirappalli-02, on 3rd February, 2016.
19. Workshop on **Revitalization of Innovative Instructional Strategies for Environmental Education** organized by Lady Doak College, Madurai on 29<sup>th</sup> September 2016.
20. DBT-STAR college scheme, One day seminar on **Nanoscience and Technology**, Department of Botany, St. Joseph's College, Tiruchirappalli-02, on 20<sup>th</sup> January, 2016.
21. **Faculty orientation programme on value education**, Dept. of Foundation courses, St. Joseph's College (Autonomous), Tiruchirappalli on 17<sup>th</sup> August 2016.
22. **Capacity building workshop for faculty on e-content development**, organized by St. Joseph's College, Tiruchirappalli-02, on 9<sup>th</sup> to 12<sup>th</sup> June, 2015.
23. **Dr V Balakrishnan Memorial CME programme**, organized by Department of Biotechnology, St. Joseph's College, Tiruchirappalli-02, on 5<sup>th</sup> March, 2015.
24. UGC sponsored National symposium on **Recent Advances in Medicinal and aromatic plants**, organized by Dept. of Botany, St. Joseph's College (Autonomous), Tiruchirappalli-02, on 5th February 2015.
  
25. **Science Academies Lecture workshop on Vistas in Biosciences** organized by Dept. of Botany, St. Joseph's College (Autonomous), Tiruchirappalli-02, on 30<sup>th</sup> and 31<sup>st</sup> of January 2015.
  
26. TNSCST sponsored National seminar on **Prospects and challenges in stem cell research**, organized by Department of Biotechnology, St. Joseph's College, Tiruchirappalli – 02, on 12<sup>th</sup> January, 2015.
  
27. One day state level workshop on **Plant tissue culture techniques**, organized by Dept. of Botany, St. Joseph's College (Autonomous), Tiruchirappalli-02, on 22nd Dec. 2014.

28. One day Regional level workshop on **Vermiculture Techniques**, organized by Dept. of Botany, St.Joseph's College (Autonomous), Tiruchirappalli-02, on 12<sup>th</sup> Dec. 2014.
29. One day workshop on **Plant taxonomy key preparation**, organized by Dept. of Botany, St.Joseph's College (Autonomous), Tiruchirappalli-02, on 26<sup>th</sup> September 2014.
30. UGC sponsored National level conference on "**Recent innovation and future trends in biology**" organized by Dept. of Botany, National College, Tiruchirappalli-1, on 24<sup>th</sup> and 25<sup>th</sup> of July 2014.
31. One day seminar on **Staff orientation on values**, organized by Department of Foundation Course, St.Joseph's College, Tiruchirappalli, on 20<sup>th</sup> & 21<sup>st</sup> of January, 2014.
32. Faculty development programme on **Entrepreneurship development**, St.Joseph's College and Entrepreneurship Development Institute, Chennai, Feb. 1<sup>st</sup> - 15<sup>th</sup>, 2013.
33. National conference on **Biodiversity conservation and sustainable development**, Department of Botany, St.Andrew's College, Gorakhpur, Feb 6-7<sup>th</sup> 2013.
34. Ten days **Soft Skill programme** organized by Joseph Academy of Soft Skills, St.Joseph's College, Tiruchirappalli, August and October, 2012.
35. Regional workshop on **Histochemistry** organized by the Department of Botany, St.Joseph's College, Tiruchirappalli, 18<sup>th</sup> October, 2012.
36. One day state level workshop on **Mushroom cultivation**, organized by the Department of Botany, St.Joseph's College, Tiruchirappalli, 18<sup>th</sup> December, 2012.

37. Workshop on “**Challenges ahead in the groundwater sector of Tamilnadu**”, organized by Central Ground water Board, South Eastern Coastal Region, Chennai on 9<sup>th</sup> Feb. 2011 at Tiruchirappalli.
38. National Conference on “**The Role of ICT in Higher Education: Quality, Accessibility and security**”, 29-30<sup>th</sup> of Jan, 2010, St.Joseph’s College, Tiruchirappalli.
39. Workshop on ‘**Biostatistics and introduction to Statistical Computing**, organized by Thiagarajar College, Madurai and ICT Academy of Tamilnadu, on 13,14<sup>th</sup> October, 2010, Madurai.
40. National Conference on “**Higher Education and National Development: the Challenge of expansion quality and inclusion**”, St.Joseph’s College, Tiruchirappalli, on 30-31<sup>st</sup> of Jan, 2009.
41. National Conference on “**Quality enhancement and Sustenance in Higher Educational Institutions through Six Sigma Quality Strategy**”, St.Joseph’s College, Tiruchirappalli, 23-24<sup>th</sup> of March, 2008.
42. Course on ‘**Orientation for the freshers**’ organized by St.Joseph’s College, Tiruchirappalli, on 4-5<sup>th</sup> Feb., 2008.
43. Regional Conference on ‘**Fern diversity of India**’, Centre for Biodiversity & Biotechnology, St.Xavier’s College, Palayamkottai and Dept. of Plant Biology and Plant Biotechnology, ST. Joseph’s College, Tiruchirappalli, 24<sup>th</sup> Feb, 2007.
44. Workshop on ‘**Inter-personal skills for staff members**’ by St.Joseph’s College, Tiruchirappalli, 3<sup>rd</sup> – 4<sup>th</sup> Mar., 2007.
45. Workshop on ‘**Patent awareness**’, Dept. of Biotechnology, St.Joseph’s College (Autonomous), Tiruchirappalli. April 7, 2006.



46. National level seminar on '*Emerging trends in life science-2006*', Dept. of Zoology, Bishop Heber College, Tiuchirappalli, Aug, 24 – 25<sup>th</sup> 2006.
47. National seminar on '*Advances in Biology*', Dept. of Botany, St.Joseph's College (Autonomous), Tiruchirappalli. Jan. 19 – 20, 2005.
48. National seminar on '*Digitalised information exchange for quality sustenance and enhancement among accredited institutions*', St.Joseph's College (Autonomous), Tiruchirappalli. Mar. 3 – 4, 2005.
49. Workshop on '*Fluorescence technology*', Dept. of Botany, St.Joseph's College (Autonomous), Tiruchirappalli. Feb. 14, 2004.
50. Workshop on '*Techniques in experimental and clinical immunology*', Dept. of Biochemistry, St.Joseph's College (Autonomous), Tiruchirappalli. Feb. 25 – 26, 2004.
51. Workshop on '*Techniques in tissue culture and histochemistry*', Dept. of Botany, St.Joseph's College (Autonomous), Tiruchirappalli. Sep. 16 – 17, 2004.
52. Workshop on '*Mushroom culture and vermitechnology*', Dept. of Botany, St.Joseph's College (Autonomous), Tiruchirappalli. Dec. 20, 2004.
53. Participated in National Symposium on "*Medicinal plants-diversity, Utilization and Conservation*", Feb 5-6, 2001, Dept. of Botany, St.Joseph's College, Tiruchirappalli.
54. ISRS National symposium on '*Remote sensing applications for natural resources retrospective and perspective*', ISRS and NNRMS, Bangalore. Jan. 19 – 21, 1999.

### Ph.D. GUIDED

1. 2018. A. Johny Kumar Tagore, 45358/Ph.D1/Botany/Part Time/January 2012 dated 17.05.2012. **Status Assessment of Plants endemic to Saddle Peak National park in Andaman islands.** Viva 01.10.2018
2. 2017. P. Raja, 15839/ Ph.D.1/Botany/ full time/ July 2012 dated 25.06.2012. **Floristic studies in Pudukkottai district of Tamilnadu.** Viva 16.11.2017
3. 2017. A. Kala, 33454/ Ph.D.1/Botany/ full time/ Oct 2011 dated 18.10.2011. **Copper bionanoparticles synthesis and its influence on the growth and control of *Xanthomonas oryzae pv. oryzae*.** Viva 14.11.2017.
4. 2017. T. Dons, 34465/ Ph.D.1/Botany/ full time/ Oct 2012 dated 10.10.2012. **Phytochemical screening and preclinical evaluation of herbal lotion for wound healing activity in Albino rats.** Viva 24.08.2017.
5. 2015. N. Dhatchanamoorthy, 34163/Ph.D.1/Botany/Oct 2011/full time, **Floristic studies and digital flora preparation of Karaikal district, U.T. of Puducherry, India.**

### M.PHIL. PROJECTS GUIDED

1. 2011. Jansipriya S. Effect of antibiotic treatment on Wolbachia sp. In mosquito system and its impact on the biological processes of the vector mosquito, *Culex quiquefasciatus*. 10MBT105.
2. 2010. Rajasekaran G. Floristic studies in Thatchanguruchi reserve forest, Tiruchirappalli district. 6MBO12030002

3. 2008. Veerakumar N. Floristic study of Sacred groves in Namakkal district. 6MBO12530014
4. 2007. Vijaya Chitra R. (06MBO102). Natural sweeteners distribution and Characterization.
5. 2007. Suresh M. Fern diversity in Pacchaimalai hills. 6MBO12030018.
6. 2007. Ramesh N. Urinary tract infection in Pregnant women diagnosis and management. 06CD25100.
7. 2007. Raja N. Algal diversity in sewage water. (06DCCA2635).
8. 2007. Radha B. Aspergillosidal effects of *Pongamia glabra* and *Pedalium murex* – comparative study. 06CD30811.
9. 2007. Marisamy S. Effect of VAM on morphological and biochemical parameters in Red gram. 06DCCA2633.
10. 2007. Johny Kumar Tagore A. Preliminary survey of phyllophere pathology in Pacchaimalai hills, Eastern ghats. (06DCCA1700).
11. 2007. John Christopher M. Floristic study in Karandamalai hills, Dindigul districts. 06DCCA1919.
12. 2007. Joel Jose. Ethnomedicinal studies in the Idukki district of Kerala state. 06DCCA1701.
13. 2007. Antony Sahayaraj A. Floristic studies in Sri Rangam island. (06DCCA1684).
14. 2006. Maria Chrismala P. (2005PH01070021) Characterization of banana *Fusarium* wilt pathogen *Fusarium oxysporum* ssp *cubense* by vegetative compatibility grouping and molecular methods (rDNA-ITS-RLFP-rDNA-IGS-RFLP).

15. 2006. Lilly Baptisa T. (05MBO110). *In vitro* micropropagation and antimicrobial studies in *Heterostemma tanjorensis*.
16. 2006. Julie Sara Matthew, Analysis of genetic variability in *Ocimum* species by RAPD markers. 06CD22737.
17. 2006. Jayanthi A. (2005PH01070012). Molecular characterization of nonpathogenic *Fusarium* and their evaluation against *Fusarium* wilt disease of banana caused by *Fusarium oxysporum* ssp. *cubens*.
18. 2005. Vanitha N. (04CD14320) Xylitol production from corn com using *Saccharomyces cerevisiae* and *Candida albicans*.
19. 2005. Chandrakala S. (04CO14285). Efficacy of a few commercial pastes and mouthwashes against a cariogenic bacterium – *Streptococcus mutagens*.

<b>M. SC. PROJECT GUIDED</b>
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1. 2018. Walter Christhuraraj C. Taxonomic study of macroscopic fungi in Pudukkottai district of Tamilnadu. 16PBO102.
2. 2018. Princy Jeya P. Taxonomic survey of macroscopic fungi in Palani hills National Park, Kodaikanal. 16PBO116.
3. 2017. Nivedha V. Taxonomic revision and micromorphological studies in *Anisomeles* (Lamiaceae) in Tamilnadu. 15PBO114.
4. 2016. Aravinth S. Antimicrobial and phytochemical studies in *Cardiospermum* species. 14PBO110.
5. 2015. Raja P. Species diversity studies in Three sacred groves of Pudukkottai district Tamilnadu. 13PBO116.

6. 2015. Kamarasu, S. Checklisting grassland diversity of Westernghats in Dindigul district, Tamilnadu. 13PBO107.
7. 2014. Sathya S. Biosynthesis of silver nanoparticle from *Morinda tinctoria* Roxb. and its antibacterial activity. 12PBO103
8. 2013. R. Sevuga Priya. Purity of honey – an attempt to validate. 11PBO101.
9. 2013. N.Vasanth. Reproductive biology of a few rare plants of Eastern ghats of Tamilnadu. 11PBO120.
10. 2012. Vijaya K. Preliminary phytochemical, spectroscopic and antimicrobial studies in *Spermacoce articularis* L.f. (Rubiaceae). 10PPB124.
11. 2012. Kalainger raj P. Preliminary Survey of Macroscopic Fungi From A Few Districts In Tamilnadu. 10PPB106.
12. 2011. Kala A. Micromorphological assessment of a few species of Spermacoce in Tamilnadu, India. 09PPB106.
13. 2011. Chandra Sekar GK. Antimicrobial activity and phytochemical analysis in *Geophila repens* (L.) I.M. Johnst 09PPB 117.
14. 2010. Mercy Angelin S. Evaluation of seed dormancy breaking methods in *Aristolochia tagala* – a rare and vulnerable twiner.
15. 2009. Maheswari A. Taxonomic studies of *Datura* in Tamilnadu. 07PPB104
16. 2008. Poyyamozi M. Floristic studies of sacred groves in Tiruchirappalli district. 06PPB124.
17. 2008. Karthic Rajan J. Target species association and plant competition. 06PPB112
18. 2007. Karthigai Deepam. Trees of Pacchaimalai hills and their phenology. 03PB106

19. 2007. Thamacin Arulappan M. Ethnobotanical studies in Vilupuram district, Tamilnadu. 05PBO102.
20. 2007. Maria Peter A. Coastal floral studies in Pudukkottai district. 05PBO116
21. 2006. Karthik K. Recycling of domestic biowaste feathers. 04PBO107
22. 2006. Anjala Navamani B. Sustainable utilization of spent wash. 04PBO114
23. 2005. Sathiyaseelan R. DNA isolation and its application in plant systematics.
24. 2005. Jenet Belcy A. Fruit constituent analysis for biodiesel production.
25. 2004. Rangaraj M. Woody species analysis in two sacred groves – refuge of wild life and a model for conservation.

**Gene sequence published in NCBI**

Soosairaj S. 2022. OP028638. *Chlorophytum laxum* ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast

Soosairaj S. 2022. OM929201.1. *Blepharis integrifolia* ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast

Soosairaj S. 2022. ON045000.1. *Blepharis integrifolia* maturase K (matK) gene, partial cds; chloroplast.

Soosairaj S. 2022. MZ130658.1. *Theriophonum sivaganganum* isolate 2408 maturase K (matK) gene, partial cds; chloroplast

Soosairaj S. 2022. MZ161915.1. *Theriophonum sivaganganum* isolate 2408 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast

Soosairaj S. 2020. MZ170072.1. *Theriophonum sivaganganum* trnL-trnF intergenic spacer region, partial sequence; Chloroplast

Soosairaj S. 2020. MT872788.1. *Psydrax dicoccos* isolate 2604 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds

Divya,R. and Soosairaj,S. MT150134.1. *Psydrax umbellata* isolate 2838 maturase K (matK) gene, partial cds; chloroplast

Soosairaj S. 2020. MT892928.1. *Psydrax umbellata* maturase K (matK) gene, partial cds; chloroplast

Soosairaj S. 2020. MT905069.1. *Psydrax umbellata* isolate 2605 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast

Divya,R. and Soosairaj,S. 2020. MT131263.1. *Psydrax umbellata* voucher 2838 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene,partial sequence.

Soosairaj S. 2020. MT053122.1. *Psydrax* sp. 2543 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence.

Sebastian, S. and Rajappa, D. 2020. MN999955.1. *Psydrax umbellata* voucher 2740 internal transcribed spacer 1,partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence.

Soosairaj S. 2019. MN733441.1. *Capparis incanescens* isolate 2528 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence.

Soosairaj S. 2019. MN728803.1. *Capparis sepiaria* isolate 2364 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene,partial sequence.