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Assistant Professor



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RESEARCH INTEREST

A keen interest in the molecular mechanisms underlying the acquisition of abscission competence and its regulation in horticultural crops through the use of novel approaches such as transcriptome sequencing, proteomics, stable gene transformation, VIGS, RNAi silencing, and bioinformatics to improve production and post-harvest quality.

Area of specialization: Molecular breeding of vegetables, Nano-technological interventions, Transgenics and Plant Genomics.

EDUCATIONAL QUALIFICATIONS

Institute/University	Degree/ Profession	Year(s)	Field of study
Tamil Nadu Agricultural University, India	B.Sc. (Horticulture)	2002-2006	Horticulture
Faculty of Agriculture, Hebrew University of Jerusalem, Rehovot, Israel	M.Sc. (Agriculture)	2006-2010	Vegetable Science, Molecular Biology
Faculty of Agriculture, Hebrew University of Jerusalem, Rehovot, Israel	Ph.D. (Agriculture)	2010-2016	Vegetable Science, Molecular Biology
Department of Nano Science and Technology, Tamil Nadu Agricultural University, India	N-PDF	2018-2019	Nano Technology



<https://scholar.google.co.in/citations?user=3Q2TDRgAAAAJ&hl=en>



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ACADEMIC | RESEARCH POSITIONS

2019 - Till	Assistant Professor, Department of Horticulture, CUTN, Thiruvavur
2018-2019	National Post-Doctoral Fellow, Funded by DST – SERB, GoI.
2017-2018	Teaching Assistant in the Department of Nano Science and Tech., TNAU, CBE
2022 - Till	Member Secretary in the Institutional Biosafety Committee of CUTN (IBSC-CUTN) of DBT, GoI

RESEARCH EXPERIENCE

Master's and Doctoral Research: Regulation of flower abscission in tomato (*Solanum Lycopersicum*) plants: functional and transcriptome analyses.

My master's and doctoral research have significantly contributed to a better understanding in the sphere, such as mapping abscission pathway in tomato, creating customized microarray for abscission research, alkalization of cells associated with abscission, and development of new transgenic lines with less abscission. The outcome of my work has enormous implications in agriculture. Pedicel abscission is a critical trait directly affecting crop yields. We had developed transgenic lines by antisense silencing of TPRP and KD genes that exhibited abscission reduction by 70-80%. Further, the complete transcriptome analysis and mapping of genes in the abscission pathway in tomato plants from my research would help breeders worldwide to modulate the abscission process in other crops by including or avoiding abscission response genes during the breeding program based on their selection strategy and target trait. Besides, we developed a customized Microarray chip (AMADID: 043310) comprising dual probes for validated transcripts, designed to mine the naturally occurring antisense transcripts (NATs), which is more robust than any other commercially available platforms.

Post-doctoral Research: Multilayered Nanoencapsulation matrix

Developed a multilayered electrospun nanofiber encapsulated with 1-MCP and Hexanal (volatile compounds) to extend the shelf-life of banana. Through the project, we developed an electrospun fiber (Nano stickers), which can be stuck on the cartons/ pouches of banana bags, where it slowly releases the ripening inhibitor molecules that will bind onto the fruit receptor and eventually delay the ripening process and, in turn, extend the shelf life of banana fruits by 14 days. This significant shelf-life extension can result in enormous savings for the farmer and traders by delaying the market clutch of low prices during peak season, thereby enhancing the availability of fruits in the region vis-à-vis nutritional security of the country.

HONORS & AWARDS

2006-2009	Recipient of Pear alumni and the Hebrew University of Jerusalem - administered a partial scholarship.
2007-2010	Recipient of <i>M.Sc. Research Scholar</i> fellowship by the Hebrew University of Jerusalem, Israel.
2011-2012	Recipient of the ISRAEL-ASIA LEADERS fellowship award
2011-2014	Recipient of the <i>ICAR International Fellowship (ICAR-IF)</i> award for PhD
2010-2016	Recipient of <i>Ph.D. Research Scholar fellowship</i> by the Hebrew University of Jerusalem, Israel
2014	Recipient of the International Horticultural Congress convener's scholarship by the International Horticulture Congress, Secretariat, Brisbane, Australia
2014	Recipient of <i>the Hebrew University travel award</i> for the best PhD research scholars, HUJI, Israel.

2014	Recipient of the Mahatma Gandhi gold medal award, Global economic progress and research association (GEPR), India
2015	Recipient of Universal achievers gold medal award, Universal Achievers foundation (UAF), India.
2017	Recipient of Prof. M.S.Swaminathan <i>Best Young Scientist Award</i> , 2017. Bose science society, TNSRO, Pudukkottai, India.
2017	Recipient of <i>Best Oral Presentation Award</i> at the third national Agricultural Scientific Tamil Conference, Coimbatore organized by the Agricultural Scientific Tamil Society (SciTSA), New Delhi
2017	Recipient of the <i>Best poster presentation</i> award at the National seminar on Nano technology for the evergreen revolution, Coimbatore, organized by the Department of Nano Science and Technology, TNAU, Coimbatore
2017	Second poster presentation award at the International Conference on Biosciences & Bioinformatics, organized by Bharathiar University, Coimbatore.
2017	Recipient of <i>Best Oral Presentation Award</i> at "National Conference on New Vistas in Vegetable Research towards Nutritional Security under changing climate scenario" organized by HC&RI, TNAU, Coimbatore.
2018	Recipient of JagarNath Raina Memorial- <i>All India Best Publication Award</i> by SADHNA- Dr YS Parmar University of Horticulture and Forestry, HP, India.
2019	Recipient of Prof. T.S. Sadasivan Memorial <i>NABS-Best Research Paper Award</i> by the National Academy of Biological Sciences, Chennai.
2020	Recipient of <i>Best Oral Presentation Award</i> at "International National conference on Banana -2020 (ICB 2020)" organized by ICAR- National Research Centre for Banana, Trichy, Tamil Nadu
2021	Recipient of <i>Best poster paper award</i> at "9 th Indian Horticulture Congress- 2021" organized by the Indian Academy of Horticultural Sciences, New Delhi and Chandra Shekhar Azad University of Agriculture and Technology, Kanpur, UP.
2022	Recipient of the <i>Best oral presentation award</i> at "National virtual Post harvest management: Concepts, Challenges and Prospects (PHM-2022)," organized by National Institute of Food Technology, Entrepreneurship and Management (NIFTEM-T), Thanjavur.
2023	Recipient of <i>Reviewer Excellence award</i> by Agricultural Research Communication center (ARCC Journals)- New Delhi, India

RESEARCH GRANTS | PROJECTS

Research Title: Multilayered encapsulation of 1- MCP and Hexanal as a smart delivery system to enhance the shelf life of Banana. **Role:** Principal Investigator. **Source of funding:** Department of Science and Technology, Science & Engineering Research Board - (DST- SERB-NPDF), GoI. **Field of research:** Nanotechnology in horticulture **Budget:** INR 19,20,000 (2017-19)

Research Title: Smart Nano Graft Matrix- Plant hormone loaded multilayer Nanofiber matrix as a smart delivery vehicle to enhance graft union. **Role:** Principal Investigator. **Source of funding:** University Grants Commission (UGC- Start-Up), GoI. **Field of research:** Nanotechnology in horticulture **Budget:** INR 10,00,000 (2021-23)

Research Title: Uncovering the role of abscission specific SAUR genes in tomato abscission regulation. **Role:** Principal Investigator. **Source of funding:** Department of Science and Technology, Science & Engineering Research Board - (DST- SERB- CRG), GoI. **Field of research:** Biotechnology in Horticulture. **Budget:** INR 59,25,832 (2022-25)

Research Title: Nano Diagnostic Kits for On-Site Detection of Health Status of Soil - Plant - Produce in Agriculture Value Chain using e-nose technology. **Role:** Cooperating Center-Principal Investigator. **Source of funding:** National Agricultural Science fund, GoI. **Field of research:** Nanotechnology in Horticulture **Budget:** INR 3.2 crores (Under consideration).

Research Title: Improved production techniques and value addition in cashew. **Role:** CO-PI. **Source of funding:** GOI- DCCD- Kochi. **Field of research:** Training for cashew farmers. **Budget:** INR 60,000 (2022- 2023)

Research Title: Improved production techniques and value addition in cashew. **Role:** Principal Investigator. **Source of funding:** GOI- DCCD- Kochi. **Field of research:** Training for cashew farmers. **Budget:** INR 60,000 (2023- 2024)

Patents

Product Patent: A spirulina-based microbial culture media composition and method thereof.

Application number: 202141012085

Authors: Vishnu G, Nashath K, Aarcha SM, Arumar N, Eswaran M, **Srivignesh S**, Praveen BN, Kaushik R.
Filed on 22/03/2021, Published on 23.09.2022

Design Patent: Natural Product Screening Device for Drug Discovery

Application number: 429274-001 / Cbr Number:216008

Authors: **Dr. S. Srivignesh**, Miss. Neha, Dr. Chettukrindi Sadak Val, Mr. Dattatraya Balasaheb Thorat, Mr. Kingshuk Sarkar, Mrs. Sheetal Negi, Mrs. Payal Pushkar Zope, Dr. Touseef Begum, Mr. Surya Pratap Singh, Dr. Arbab Husain

Granted on: 04/09/2024 by **IPR, The Patent Office, Government of India**

UK Design Patent: High-Performance Microtome Apparatus for Sectioning Paraffin and Plastic-Embedded Tissues

Design number: 6434649

Authors: Dr. Venkata Suresh. Jilakara, Dr. Neelam Pawar, Dr. Swamita Arora, Dr. Srivignesh Sundaresan, Prof. Dr. Nilesh Kumar, Dr. Mohammad Zanol Abedeen, Dr. Touseef Begum, Jyoti Malik, Mr. Anshul Chaubey.

Granted date: 08.04.2025 by **Intellectual Property Office, UK**

Design Patent: FRUIT RIPENESS AND MATURITY DETECTED SCANNER

Design number: 477649-001

Authors: Dr. S. Srivignesh, Pavan Shukla, Dr. Pankaj Kumar Ray, Vishal Kumar, Kumari Neha Sinha, Mr. Tejendra Kumar, Anand Kumar Dikshit, Dr. Gurbir Singh, Dr. Ravi Pratap Singh, Dr. Devi Singh, Mr. Amit Singh

Granted on: 21.10.2025

Date of Issue: 10.07.2026 by **IPR, The Patent Office, Government of India**

RESEARCH PUBLICATIONS

1. Meir, S., Philosoph-Hadas, S., **Sundaresan, S.**, Selvaraj, *et al.* (2010). Microarray analysis of the abscission-related transcriptome in the tomato flower abscission zone in response to auxin depletion. *Plant Physiol.* 154: 1929-1956. <https://doi.org/10.1104/pp.110.160697> (**Impact factor: 8.6**)
2. Meir, S., Philosoph-Hadas, S., **Sundaresan, S.**, Selvaraj, *et al.* (2011). Identification of defense-related genes newly-associated with tomato flower abscission. *Plant Signal. Behav.* 6: 590-593. doi: [10.4161/psb.6.4.15043](https://doi.org/10.4161/psb.6.4.15043) (**Impact factor: 2.73**)
3. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., Belausov, E., *et al.* (2014). Abscission of flowers and floral organs is closely associated with alkalization of the cytosol in abscission zone cells. *J. Exp. Bot.* 66, 1355–1368. <https://doi.org/10.1093/jxb/eru473> (**Impact factor: 7.29**).
4. Meir, S., **Sundaresan, S.**, Riov, J., Agarwal, I., and Philosoph-Hadas, S. (2015). Role of auxin depletion in abscission control. *Stewart Posthar. Rev.* 11,1–15. doi: 10.2212/spr.2015.2.2.
5. Kim, J., **Sundaresan, S.**, Philosoph-Hadas, S., Yang, R., Meir, S., and Tucker, M.L. (2015). Examination of the abscission-associated transcriptomes for soybean, tomato and Arabidopsis highlights the conserved biosynthesis of an extensible extracellular matrix and boundary layer. *Frontiers Plant Sci.* 6. <https://doi.org/10.3389/fpls.2015.01109>. (**Impact factor: 6.62**)
6. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., *et al.* (2016). *De novo* transcriptome sequencing and development of abscission zone-specific microarray as a new molecular tool for analysis of tomato organ abscission. *Frontiers Plant Sci.* 6. <https://doi.org/10.3389/fpls.2015.01258> (**Impact factor: 6.62**)
7. **Sundaresan, S.**, Meir, S., Philosoph-Hadas, S., *et al.* (2018). The Tomato Hybrid Proline-Rich Protein regulates the abscission zone competence to respond to ethylene signals. *Horticulture Research* 5:28, 1-17. <https://doi.org/10.1038/s41438-018-0033-2>. (**Impact factor: 7.29**)
8. P. Sumitha, K. Sukumar, **S. Srivignesh** (2018). Sequencing and phylogenetic analysis of vlhA gene from *Mycoplasma synoviae* field isolates associated with Eggshell apex abnormality. *Indian J. Anim. Res.*, B-3342, 1-4. DOI: 10.18805/ijar.B-3442. (**Impact factor: 0.42**)
9. V. Kanmani, I. Muthuvel, **S. Srivignesh**, K.S. Subramanian., *et al.* (2018). Post-harvest dip of

enhanced freshness formulation to extend the shelf life of banana (*Musa acuminata* cv. Grand Naine) in India. *Tropical Agriculture* 95:1, 1-13. (**Impact factor: 0.15**)

10. D. Durgadevi, **S. Srivignesh** and A. Sankaralingam (2018). Effect of Consortia Bioformulation of Rhizobacteria on Induction of Systemic Resistance in Tuberose Against Peduncle Blight Disease. *International Journal of Bio-resource and Stress Management*, Vol 4, 510 – 517, DOI: [HTTPS://DOI.ORG/10.23910 /IJBSM/2018.9.4.1850b](https://doi.org/10.23910/IJBSM/2018.9.4.1850b). (NAAS- 4.65)
11. **Sundaresan, S.**, Pravin, I.A., Philosoph-Hadas, S. and Meir, S., 2019. Polygalacturonase genes in tomato flower and leaf abscission zones- A novel trait for molecular breeding. *Journal of Applied Horticulture*, 21(3), pp.171-177. <https://doi.org/10.37855/jah.2019.v21i03.29> (**Impact factor: 0.29**)
12. M. Surendhiran, K. Raja, R. Jerlin, S. Marimuthu and **S. Srivignesh** (2019). Nano emulsion seed invigouration for improved germination and seedling vigour in maize. *International Journal of Agricultural Science and Research*, 9, no. 3, 333-340. (NAAS- 4.13)
13. I. Arumuka Pravin, **S. Srivignesh**, D. Dhakshinamoorthy, K. S. Subramanian and A. S. Krishnamoorthy (2019). Respodip treatment with nano emulsion of hexanal to reduce the anthracnose disease of banana and extend its shelf-life. *Journal of soils & crops*: 29 (1); 32-37. (NAAS- 4.46)
14. Muthuvel, I., **Srivignesh, S.**, Mutharasu, P., Kavino, M. and Subramanian, K.S., 2019. Shelf-Life Extension of Banana (*Musa* spp.) using Hexanal Formulation as a Post-harvest Dip. *Current Journal of Applied Science and Technology*, 38 (6), pp.1-12.
15. Pravin, I.A., Durgadevi, D., **Srivignesh, S.**, Subramanian, K.S., Nakkeeran, S., Amirtham, D. and Krishnamoorthy, A.S., 2020. Antifungal Activity of Chinese Caterpillar Fungus (*Ophiocordyceps sinensis* Berk.) against Anthracnose Disease on Banana. *Int. J. Curr. Microbiol. App. Sci*, 9(3), pp.848-859.
16. Sudhakar, P., Thenmozhi, V., **Srivignesh, S.** and Dhanalakshmi, M., 2020. Colocasia esculenta (L.) Schott: Pharmacognostic and pharmacological review. *Journal of Pharmacognosy and Phytochemistry*, 9(4), pp.1382-1386.
17. Dhakshinamoorthy, D., **Sundaresan, S.**, Iyadurai, A., Subramanian, K.S., Janavi, G.J., Paliyath, G. and Subramanian, J., 2020. Hexanal Vapor Induced Resistance against Major Postharvest Pathogens of Banana (*Musa acuminata* L.). *The Plant Pathology Journal*, 36(2), p.133. <https://doi.org/10.5423/ppj.oa.03.2019.0072> (**Impact factor: 2.30**).
18. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., Salim, S. and Meir, S., 2020. Expression Kinetics of Regulatory Genes Involved in the Vesicle Trafficking Processes Operating in Tomato Flower Abscission Zone Cells during Pedicel Abscission. *Life*, 10(11), p.273. <https://doi.org/10.3390/life10110273> (**Impact factor: 3.25**).
19. Sundaresan, S., Philosoph-Hadas, S., Ma, C., Jiang, C.Z., Riov, J., Kochanek, B., Salim, S., Reid, M.S. and Meir, S., 2021. Role of the KNOTTED1-LIKE HOMEBOX protein (KD1) in regulating abscission of tomato flower pedicels at early and late stages of the

20. Ponnusamy, R., Pasuvaraji, A., Suppaiah, R., Sundaresan, S. and Sevugapperumal, N., 2021. Molecular characterization of *Fusarium oxysporum* f. sp. *dianthi* and evaluation of fungicides against Fusarium wilt of carnation under protected cultivation. *Indian Journal of Experimental Biology*, 59: 770-775. (Impact factor: 0.81)
21. Kumar, R.R., Marimuthu, S., Janaki, P., Moorthy, P.S., Gowtham, G., **Sundaresan, S.** and Lakshmanan, A., 2022. Synthesis of Lignosulfonate based Nanocarriers for the Delivery of Agrochemicals. *International Journal of Plant & Soil Science*, 34(15): 53-60.
22. Kalangadan, N., Mary, A.S., Jyothi, R.H., Punniyakoti, **S., Sundaresan, S.**, Alagarsamy, R.K. and Rajaram, K., 2022. Characterization and antimicrobial evaluation of green synthesized silver nanoparticle thin films with reusable applications. *Materials Letters*, 314, p.131923. <https://doi.org/10.1016/j.matlet.2022.131923> (Impact factor: 3.42)
23. Latha, M., Raja, K., Subramanian, K.S., Govindaraju, K., Karthikeyan, M., Lakshmanan, A., **Srivignesh, S.** and Kumuthan, M.S., 2023. Polyvinyl alcohol (PVA) nanofibre matrix encapsulated with tebuconazole fungicide: a smart delivery system against dry root rot disease of black gram. *Polymer Bulletin*, 80, pp. 9489-9505. <https://doi.org/10.1007/s00289-022-04509-3> (Impact factor: 2.87)
24. S Marimuthu., N Swathika., **S Srivignesh.**, and A Lakshmanan., 2023. Scope of nanotechnology in allelopathic weed management. *Allelopathy Journal*, 58(2): 89-108. <https://doi.org/10.26651/allelo.j/2023-58-2-1422> (Impact factor: 1.05)
25. Karthiga P., S Senthilkumar., **S Srivignesh.**, and S Manivannan., 2023. Advances in enhancement of nutraceutical values through omics technologies in vegetables. *The Pharma Innovation Journal*, 12(3): 4830-4837.
26. H. Ragulraj, **S. Srivignesh**, K. Ramakrishna and A. Ramesh kumar. 2022. Bio-stimulants influence on growth and yield of aggregatum onion. *Eco. Env. & cons.* 28 (4), pp. 2062-2067. ISSN 0971-765x.
27. Bawya, D., kumar, A.R., **Srivignesh, S.** and Krishna, K.R. 2022. Effect of foliar spray of seaweed extract and humic acid on growth and yield of cluster beans [*Cyamopsis tetragonoloba* (L.) Taub.] Var. Pusa navbahar. *Legume research*. 48 (5), pp 901-904.
28. K. Gnanasundari, **S. Srivignesh**, K. Rama krishna, Manish kumar and A. Ramesh kumar*. 2022. Integrated nutrient management in onion-a review. *Eco. Env. & cons.* 28 (November suppl. Issue) pp. s182-s192.
29. L. Priyadarsini, A. Subbiah, **S. Srivignesh**, K. Rama Krishna, K. Rajaram, S. Kathiresan and A. Ramesh Kumar, 2023. Comparative analysis of growth and yield parameters of grape var. 'muscat hamburg' grafted on 'dog ridge' rootstock and self-rooted cuttings. *Plant Archives*. 23 (1), pp.384-388

30. Palanisamy Karthiga, Alagarsamy Ramesh Kumar, and **Sundaresan Srivignesh**, 2023. Review on grafting status of solanaceous vegetables in India. *Asian Jr. of Microbiol. Biotech. Env. Sc.* 25 (3), pp. 448-462
31. Gokiladevi R, P. Ellampirai M, Ramesh kumar A, **Srivignesh S** and k. Rama Krishna, 2023. Natural colour extraction from horticultural crops, advancements, and applications—a review. *Natural product research*, 39 (1), pp163-181. <https://doi.org/10.1080/14786419.2023.2280796> (Impact factor: 2.3)
32. Ambethgar, A.S., Rameshkumar, A., krishna, K.R. and **Sundaresan, S.** (2024). Biological control of pests in major tropical vegetable crops: a review. *Agricultural reviews*. DOI: 10.18805/ag.R-2635.
33. Harini, R.S., Sezhian, A.A., Pravin, I.A., Kumar, A.R. and **Srivignesh, S.**, (2024). LEDs lead the way: maximizing vegetable potential through photonics. *Journal of Innovative agriculture*, 11(2), pp.17-24.
34. Gomathi, A., Krishna, K.R., Pravin, I.A., Rameshkumar, A., Thondaiman, V. and **Srivignesh, S.**, (2024). Application of nanoparticles in agriculture and vegetable seed germination. *Journal of Innovative agriculture*, 11(2), pp.1-10.
35. Mary, A.S., Muthuchamy, M., Thillaichidambaram, M., Lee, S., Sivaraj, B., Magar, S., Ghosh, S., Roy, C.L., **Sundaresan, S.**, Kannan, M. and Govindarajan, S., (2024). Formulation of dual-functional nonionic cetomacrogol creams incorporated with bacteriophage and human platelet lysate for effective targeting of *mdr P. Aeruginosa* and enhanced wound healing. *ACS Applied bio materials*, 7, pp. 6586-6593. <https://doi.org/10.1021/acsabm.4c00747> (Impact factor: 4.6)
36. Kumar, M., Harish, A., **Srivignesh, S.**, Manivannan, S., Challabathulah, D., Thondaiman, V. and kumar, A.R., (2024). Pruning and chemical manipulation influence leaf physiological parameters and pod yield parameters of perennial moringa (*moringa oleifera* lam.) Cv. Kappalpatti local during off-season. *International Journal of Plant and Environment*, 10(02). Pp 229-237. (Impact factor: 0.3)
37. Shanmugam, H., Biswal, B.K., **Sundaresan, S.**, Selvakumar, D., Kennedy, Z.J. and Priya, R.S., (2024). Comparative nutrient and chemometric analysis of leaf to fruits of Sourpsop (*Annona muricata*) and Bullock's heart (*Annona reticulata*): implications for nutraceutical development. *Journal of food composition and analysis*, 135, p.106686. <https://doi.org/10.1016/j.jfca.2024.106686> (Impact factor: 4.0)
38. M. Pradeep., **S. Srivignesh.**, K.R. Krishna., S. Kathiresan., I.A. Pravin and A.R. Kumar., (2024). Enhancing yield and economics of banana cultivar Rasthali (Silk-AAB) through bunch spray of growth regulators and nutrients. *Journal of Environmental Biology*, 45 (6), pp. 756-762 (Impact factor: 0.7)
39. Ambethgar Anbu Sezhian., Sri Harini Ramalingam., Iyadurai Arumuka Pravin., **Sundaresan Srivignesh** (2024). Recent developments in cultivation and processing of sweet gourd (*Momordica cochinchinensis* spreng.). *Journal of Innovative Agriculture*, 11 (3), pp : 1-11.

40. Anbu Sezhian Ambethgar, Arumukapraivin Iyadurai, Alagarsamy Ramesh Kumar, Shanthi VP, Ambethgar Vellaisamy, and **Srivignesh Sundaresan** (2024). Enhancing vertical farming with cutting-edge automation: a comprehensive review. *International Journal of Research in Agronomy*, 7 (8), pp 819-831.
41. Kumar, M., Harish, A., **Srivignesh, S.**, Manivannan, S., Challabathula, D., Kathiresan, S. and Kumar, A.R (2024). An overview on off-season flowering in perennial horticultural crops. *Eco. Env. & Cons.* 30 (2), pp. (664-673).
42. Mary, A.S., Kalangadan, N., Prakash, J., **Sundaresan, S.**, Govindarajan, S. and Rajaram, K., 2024. Relative fitness of wild-type and phage-resistant pyomelanogenic *P. aeruginosa* and effects of combinatorial therapy on resistant formation. *Heliyon*, 10(21), e40076 . <https://doi.org/10.1016/j.heliyon.2024.e40076> (Impact factor: 3.4)
43. AnbuSezhian Ambethgar, Nireesh Kumar Nehru, Arumuka Pravin Iyadurai, Rameshkumar Alagarswamy, Rama Krishna Karri, **Srivignesh Sundaresan** (2025). Effects of Biostimulants on Growth and Biochemical Composition of *Amaranthus dubius*. *Archives of Current Research International* 25 (4), pp. (42-61).
44. Arivazhagan, G., Ramalingam, S., Iyadurai, A.P., Rajaram, K., Ramesh Kumar, A. and **Sundaresan, S.**, (2025). Impact of green synthesized selenium nanoparticles on the growth and development of Amaranth microgreens. *Frontiers in Nanotechnology*, 7, p.1621024. <https://doi.org/10.3389/fnano.2025.1621024> (Impact factor: 3.8)
45. Kavya, M.R., Krishna, K.R., Rameshkumar, A. and **Srivignesh, S.**, (2025). From gene to plate-Nutritional genomics and the second generation transgenics. *Nutrition*, 140, p.112917. <https://doi.org/10.1016/j.nut.2025.112917> (Impact factor: 3.0)
46. Mani, A., Shanmugha Mary, A., Kalangadan, N., **Sundaresan, S.**, Ghosh, S., John Prakash, Siva sundara Kumar, D., Rajaram, K (2025). Augmenting phage therapy using green nanotechnology for promising infection control, wound healing and devoiding phage resistance in MDR *Pseudomonas aeruginosa*. *Scientific Reports* 15, 30439. <https://doi.org/10.1038/s41598-025-00449-w> (Impact factor: 3.9)
47. Chithra, M., Krishna, K.R., Rakesh, S., Kumar, A.R. and **Srivignesh, S.**, 2025. Amelioration of Breadfruit Shelf-Life and Quality by Cling and Shrink Film as Modified Atmospheric Packaging. *Packaging Technology and Science*. <https://doi.org/10.1002/pts.70014>. (Impact factor: 3.7)
48. Karthiga, P., Senthilkumar, S., **Srivignesh, S.** and Manivannan, S., 2025. Inevitable Role of Grafting in Improvement of Cucurbitaceous Crops: A Review. *Agricultural Reviews*, 46(3), pp.401-408. 10.18805/ag.R-2602. (Impact factor: 0.5)
49. Ambethgar, A.S., Iyadurai, A.P., Alagarsamy, R.K., Shanmugam, K. and **Sundaresan, S.**, 2026. Enhancing sugar levels in winter-grown watermelon through strategic pruning: Sweetness beyond seasons. *Plant Science Today*, 13, p.13163. <https://doi.org/10.14719/pst.13163> (Impact factor: 0.8)
50. Harish, A., Kathiresan, S., **Srivignesh, S.**, Gopika, D., Kumar, M., Pravin, I.A. and Kumar, A.R., 2026. Studies on genetic diversity for quantitative and quality traits in wild/semi

- domesticated small bitter gourd genotypes. *Journal of Environmental Biology*, 47(1), pp.169-176. <http://doi.org/10.22438/jeb/47/1/MRN-5669> (**Impact factor: 0.7**)
51. Keerthipati, N.V., Das, U., Paramanik, S., Poonguzhali, S., **Srivignesh, S.**, Prasad, S.S. and Dishri, M., 2026. Refuse to resource technologies for waste conversion into biofuel for greener future. *Discover Sustainability*, 7:516, pp 1-29. <https://doi.org/10.1007/s43621-026-02801-0>. (**Impact factor: 3.6**)
 52. Harish, A., Kathiresan, S., **Srivignesh, S.** and Kumar, A.R. (2025). Diversity of Small bitter gourd (*Momordica charantia* L. var *muricata*) genotypes Based on Phytochemical and Quality traits using Multivariate statistics. *Plant Science Today*, 12(sp3), pp. 1-9. <https://doi.org/10.14719/pst.10249>. (**Impact factor: 0.8**)
 53. Pradeep M, **S Srivignesh**, K Rama Krishna, S Kathiresan and A Ramesh Kumar (2026). Modulation of yield dynamics in acid lime cv. Balaji during Hasta bahar through foliar application of novel plant growth regulators. *Plant Science Today* 13 (sp2), 1-10. <https://doi.org/10.14719/pst.13332>. (**Impact factor: 0.8**)
 54. Harini, R.S., ArumukaPravin, I., Gomathi, A., Divyabharathi, M.C., Krishna, K.R., Kumar, A.R., Rajaram, K. and **Srivignesh, S.**, (2026). Effect of Light Spectrum and Photoperiod on Growth and Phytochemicals of Amaranthus microgreens. *Journal of Agriculture and Food Research*, p.102986. <https://doi.org/10.1016/j.jafr.2026.102986>. (**Impact factor: 7.2**)
 55. Kalangadan, N., Mani, A., **Sundaresan, S.**, Iyadurai, A.P., Govindarajan, S. and Rajaram, K., (2026). Restoring ciprofloxacin efficacy via β -caryophyllene synergy for concurrent infection control and tissue regeneration. *World Journal of Microbiology and Biotechnology*, 42(8), p.401. <https://doi.org/10.1007/s11274-026-05121-7>. (**Impact factor: 4.9**)
 56. Tharunkumar J, **Srivignesh Sundaresan**, Arumuka Pravin I and Suchitra Rakesh (2026). Development of UV-induced mutants of *Scenedesmus obliquus* with enhanced lipid content for sustainable biofuel production. *World Journal of Microbiology and Biotechnology* 42, 412. <https://doi.org/10.1007/s11274-026-05142-2>. (**Impact factor: 4.9**)

Professional Development Activities like Conferences, Seminars, Workshops, Training Programmes organized

1. Organized a Two Days Workshop on Plant Genome Engineering for Faculty Members at Department of Horticulture, Central University of Tamil Nadu, Thiruvavur, Sponsored By DST-SERB-CRG, GoI, New Delhi, On 5th & 6th November 2024 (25 Faculties)
2. Organized an invited lecture on "Life in life sciences: How to navigate to achieve career goals" by Dr.Muthamilarasan, Dept. of plant sciences, School of life sciences, University of Hyderabad at Department of Horticulture, Central University of Tamil Nadu, Thiruvavur on 28.10.2024
3. Served as a Chairperson for the AMR symposium held as part of MicroArMoE 2.0 (2024), organized by the Department of Microbiology, Central University of Tamil Nadu, Thiruvavur on 18th and 19th November 2024.

4. Participated in the faculty training Program entitled "Research before you teach: Empowering Mentors" organized by the Department of Applied Psychology, Central University of Tamil Nadu, Thiruvavur, from 27th to 29th February 2024.
5. Served as an organizing joint secretary for the International Day of Immunology 2024, jointly organized by the Department of Epidemiology, Central University of Tamil Nadu, Thiruvavur and Indian Immunology Society, New Delhi on 29th April 2024.
6. Served as an organizing committee member for the 18th SOMA International Conference of Medical Arthropodology on Vector -Borne and Zoonotic Diseases, jointly organized by the Department of Epidemiology, Central University of Tamil Nadu, Thiruvavur and SOMA, New Delhi on 18-20th December 2025.

Abstracts & Posters

International Conferences and Symposia

1. Harish A, Kathiresan S, Srivignesh S, Manish Kumar and Ramesh Kumar A. 2026. Enhancing Secondary metabolites in Small Bitter Gourd Callus Influenced by Plant Growth Hormones. Abstract and Oral In International Conference on Bioengineering (ICB 2026)organized by School of Bioengineering, SRM Institute of Science and Technology, Kattankulathur, Tamilnadu during 11-13th March, 2026. Page 283
2. Ankari AB, Thanushree L, Suriyaprakash R, Poornima Reddi, Rajashekhar Ballari, Srivignesh Sundaresan , Kaushik Rajaram, Sudha Rao, Raja Mugasimangalam , 2025. T2T Rice Genome First From India. Abstract and Poster (PCB13) in the Genomics India Conference-2025 organized by IISC Bengaluru, and BIG data biology, on 12-14th August 2025. Pages 321
3. Srivignesh S, Suriyaprakash R, Aditya ankari, Rajashekhar Ballari, Poornima reddy, Divya Sakthi, Raja Mugasimangalam, Sudha Rao, 2025. Telomere-to-Telomere Sequencing of Indian Basmati Rice. Oral and Abstract in the 6th International Conference on Plant Physiology (ICPP-2025 on Translational Genomics and Physiology for Sustainable Agriculture organized by TANU, Coimbatore and Indian Society for plant Physiology, New Delhi, on 15-18th December 2025. PP
4. Sundaresan Srivignesh*, M R Kavya, Karri Rama Krishna and Alagarsamy Ramesh Kumar, 2025. Biosynthesized Zinc oxide Nanoparticles enhance drought resilience in Okra (*Abelmoschus esculents* L. Monech) . Abstract and oral in the 11th Indian horticultural congress-2025 and International meet on Horticulture for inclusive, equitable and sustainable growth (IHC-2025) organized Indian academy of Horticultural Sciences, New Delhi and UAS, GKVK campus, Bengaluru, on 6-9th November, 2025. Page 444.
5. Ambethgar, A. S., Iyadurai, A. P., Alagarsamy, R. K., Shanmugam, K., & **Sundaresan, S.** 2026. Thermal preconditioning of seeds as a driver for enhanced sugar levels in winter-grown watermelon. In 13th International Conference on Agriculture, Horticulture, Forestry & Allied Sciences for Sustainable Himalayan Ecosystem (ICAHFAS-2026) organized by Indian Council of Forestry Research and Education – Himalayan Forest Research Institute (ICFRE-HFRI), Shimla during 18-20 March, 2026. Page 983
6. Ambethgar, A. S., Iyadurai, A. P., Ramesh Kumar, A., Kathiresan, S., & **Sundaresan, S.** 2025. Role of vine pruning to enhance fruit quality attributes of winter-grown watermelon. In the 12th International Conference on Emerging Issues in Agricultural, Food technology, Biological & Applied sciences for Global development (EIAFTBASGD-2025) organized by College of Dairy and Food Technology (CDFT), Rajasthan and Agro Environmental Development society (AEDS), Uttarpradesh, during 15-17th November, 2025, pages 7-8.

7. M. C. Divyabharathi, S. Srivignesh, I. Arumugam Pravin.2025. Role of Solvent in PVA Solution with PGRs for developing Smart Nano Graft Matrix, 8th International Conference: Cutting-edge Research Innovation in Sustainable Education, Environment, and Agriculture (CRISEA - 2025) organized by School of Biological Sciences & Biotechnology, Goa University, Goa, in collaboration with Agriculture Technology Development Society (ATDS), Ghaziabad, (U.P), India, during 24 - 26February, 2025, page:223.
8. M.C. Divyabharathi, K. Rama Krishna, S. Srivignesh and A. Ramesh Kumar.2025. Standardizing the Blanching Technique and its Influence on Shelf Life and Quality of Stored Moringa pulp shred. International Conference on "Recent Advances in Food Science & Technology: A Way Forward" Danaveera Sirasangi Shri Lingaraj Desai College of Horticultural Engineering & Food Technology Devihosur, (DSLDCHEFT) Haveri - 581 110, Karnataka, India in association with Karnataka Science & Technology Academy, Department of Science and Technology, Government of Karnataka Bengaluru - 560 097, Karnataka, India during 22-24, January 2025: page 68.
9. Rekha GV. Rama Krishna K and Srivignesh S. 2025. Influence of Chemical Elicitors on Chilli Anthracnose. International Conference on Recent Advances in Food Science and Technology: A Way Forward, organised by DSLDCHEFT, Devihosur-Haveri, UHS, Bagalkot and Karnataka Science and Technology Academy, GoK. 22-24/01/2025
10. Arivazhagan Gomathi, Ramalingam Sriharini, Iyadurai Arumuka Pravin, Rajaram Kaushik, Sundaresan Srivignesh (2025). Impact of Green synthesized selenium nanoparticles on the growth and development of Amaranth microgreens, in the 8th International Conference: Cutting-edge Research Innovation in Sustainable Education, Environment, and Agriculture (CRISEA - 2025) organized by School of Biological Sciences & Biotechnology, Goa University, Goa, in collaboration with Agriculture Technology Development Society (ATDS), Ghaziabad, (U.P), India, during 24 - 26February, 2025, page:80.
11. S. Srivignesh, Poornima Reddy, Nihar Bachan Das, Raja Mugasimangalam & Rajashekhar Ballari (2024). First Telomere to Telomere Indian Rice Genome in the Genomics India Conference organized by Shiv Nadar Institution of Eminence, Delhi NCR- 2024, on 1st - 3rd February 2024.
12. Harish A, Kathiresan S, Srivignesh S, Ramesh Kumar A. 2024. Squalene Epoxidase (MscE)- a gene encoding 2,3-Oxidosqualene for charantin biosynthesis from unexploited small bitter gourd. Abstract and Oral in the International Conference on Bioinformatics in Health and Food security (ICB-HFS 2024) organized by the Department of Bioinformatics, Pondicherry University, Puducherry on March 14-16, 2024
13. Praveena, P, Rama Krishna, K, Suchitra, R, Sundaresan Srivignesh, Arumuka Pravin Iyyadurai and A. Ramesh Kumar. 2024. Muffin preparation: Replacing cane sugar with banana fruit pulp. International conference on precision horticulture organized by Horticultural College and Research Institute, TNAU, Periyakulam -625604, during August, 22-24, 2024, page: 294-295.
14. Pradeep, M, Sundaresan Srivignesh, Rama Krishna, K, S. Kathiresan, Kaushik Rajaram, Arumuka Pravin Iyyadurai and A. Ramesh Kumar. 2024. Enhancing quality of banana cv. Rasthali (Silk- AAB) through bunch spray of growth regulators and nutrients. International conference on futuristic Horticulture (ICFH) organized by Horticultural College and Research Institute, TNAU, Coimbatore in association with Society for Promotion of Horticultural Science and technology, Coimbatore, during November, 14-15, 2024, page: 35-36.
15. Sundaresan, S., Subramaniyan, K.S., (2021). Nano Sticker- Multilayered encapsulation of 1- MCP and Hexanal as a smart delivery system to enhance the shelf life of Banana. Abstract and Oral In the "9th Indian Horticulture congress- 2021" organized by Indian Academy of Horticultural Sciences, New Delhi and Chandra Shekhar Azad University of Agriculture and Technology, Kanpur, UP. 18th -20th November 2021.

16. Meir, S., **Sundaresan, S.**, Riov, J., Salim, S., and Philosoph-Hadas, S. (2018). Regulation of vesicle trafficking in the tomato flower abscission zone during the phases of execution and formation of a defense layer. Abstracted and poster presentation in the International Plant Molecular Biology-IPMB congress Consortium, **France**.
17. Tucker, M.L., Ronghui, Y., Joonyup, K., Zhong, C.J., Philosoph-Hadas, S., **Sundaresan, S.**, and Meir, S (2018). A study of the role of IDA-like gene expression in soybean and tomato abscission – IDA is expressed in abscission but may not be essential. Abstract and oral in the XI International Symposium on the plant Hormone Ethylene, Center of Mediterranean Agronomic Institute of Chania, Crete, **Greece**, p. 93-94.
18. **Srivignesh, S.**, Durgadevi, D., Janavi, G.J., and Subramanian, K, S (2017). Metagenomic profiling of Hexanal treated mango fruits towards food safety. Abstracted and poster presentation in the International Conference on Recent Advances in Food processing Technology- (iCRAFT18), Indian Institute of Food Processing Technology (IIFT), **Thanjavur**.
19. **Srivignesh, S.**, Durgadevi, D., ArumukaPravin, I., Philosoph-Hadas, S., and Meir, S (2017). Antisense microarrays and Natural antisense transcripts. Abstract and Poster in the International conference on Biosciences & Bioinformatics, Bharathiar University, **Coimbatore**, p.165-166.
20. Durgadevi, D., **Srivignesh, S.**, ArumukaPravin, I., Harish, S., and Alice, D (2017). Exploitation of ACC Deaminase synthesizing plant growth promoting bacteria, a useful trait to endophytic colonization of roots of rice under biotic and abiotic stress. Abstract and Oral in the International conference on Biosciences & Bioinformatics. Bharathiar University, **Coimbatore**, p. 31-32.
21. Meir, S., Salim, S., **Sundaresan, S.**, Abebie, B., Chernov, Z., Glick, A., and Philosoph-Hadas, S (2016). Regulation of senescence and abscission in ornamentals by plant hormones: Horticulture use and mode of action. Abstract and key note speak in the III International Symposium on Horticulture in Europe. Chania, **Greece**. p.44.
22. **Sundaresan, S.**, Philosoph-Hadas, S., Ma, C., Riov, J., *et al.* (2016). THyPRP and KD1 regulate flower abscission by affecting the extracellular vesicle cargo of cell wall degradation enzymes. Flash talk, Abstract and Poster presentation in the Extracellular vesicles: friends and foes. Conference. Weizmann Institute of Sciences, Rehovot, **Israel**.
23. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., *et al.* (2015). Transcriptome profiling of ethylene-related molecular changes occurring in the tomato flower and leaf abscission zones in response to auxin depletion. Abstract and lecture in the 10th International Conference on the Plant Hormone Ethylene, Chongqing, **China**, Session 10-3, P.52
24. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., *et al.* (2015). Auxin related changes during tomato organ abscission driven by auxin depletion. Abstract and Poster in the 2nd Pears Foundation Alumni Symposium in Plant Sciences, Rehovot, **Israel**. P.40
25. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, *et al.* (2015). Abscission of flowers and floral organ is closely associated with alkalization of the cytosol in the abscission zone cells. Abstract and Poster in the Ezra Galun Memorial Symposium- Israeli society of plant sciences (ISPS), Rehovot, **Israel**. P.75
26. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., *et al.* (2014). Transcriptome analysis of the tomato flower and leaf abscission zones, using a customized abscission zone microarray. Abstract and lecture in the 29th International Horticultural Congress (IHC), Brisbane, **Australia**, SYM9.
27. Meir, S., **Sundaresan, S.**, Ma, C., Philosoph-Hadas, S., *et al.* (2014). New insights and approaches for elucidating regulation of organ abscission. Abstract and lecture in the 29th International Horticultural Congress (IHC), Brisbane, **Australia**, Abstract SYM9.
28. Lers, A., Bar-Dror, T., Dermastia, M., Kladnik, A., **Sundaresan, S.**, Meir, S., *et al.* (2014). Asymmetry between the distal and proximal sides of the abscission zone: characterization, functional significance and the involvement of programmed cell death. Abstract and lecture in the 29th International

Horticultural Congress (IHC), Brisbane, **Australia**, Abstract SYM9.

29. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., *et al.* (2014). Abscission regulatory networks: a transcriptomic analysis using NGS and a novel tomato flower and leaf abscission zone customized microarray. Abstract and poster in the 7th Congress of the Federation of the Israel Societies of Experimental Biology (FISEB, ILANIT), Eilat, **Israel**, Abstract PB-71, p. 36.
30. **Sundaresan, S.**, Philosoph-Hadas, S., Kochanek, B., *et al.* (2013). Ethylene-enhanced flower abscission is associated with specific increased pH of the cytosol in abscission zone cells of Arabidopsis, wild rocket and tomato flowers. Abstract and lecture in the 21st Conference of the International Plant Growth Substances Association (IPGSA), Shanghai, **China**, Abstract C-16, p. 177.
31. **Sundaresan, S.**, Philosoph-Hadas, S., Kochanek, B., *et al.* (2012). Ethylene-enhanced flower abscission is associated with specific increased pH of the cytosol in abscission zone cells of Arabidopsis, wild rocket and tomato plants. Abstract and lecture in The IX International Conference on the Plant Hormone Ethylene, Rotorua, **New Zealand**, p. 89.
32. **Sundaresan, S.**, Philosoph-Hadas, S., Lers, A., *et al.* (2011). Flower and leaf abscission: Molecular analysis of the regulation of the interaction between auxin and ethylene. Abstract and poster in the 6TH Congress of the Federation of the Israel Societies for Experimental Biology (ILANIT), Eilat, **Israel**, p. 54.
33. Jiang, C-Z., Meir, S., Lers, A., Philosoph-Hadas, S., *et al.* (2010). Molecular analysis of the interaction of auxin and ethylene during flower abscission. Abstract and poster in the 28th International Horticultural Congress, Lisbon, **Portugal**. Abstract S04.054, p. 244.
34. **Sundaresan, S.**, Lers, A., Philosoph-Hadas, S., *et al.* (2010). Regulation of the interaction between auxin and ethylene during flower and leaf abscission: A molecular study. Abstract and poster in the 20th International Conference on Plant Growth Substances (IPGSA), Tarragona, **Spain**. Abstract PS13-04, p. 97.
35. Meir, S., Lers, A., Philosoph-Hadas, S., Burd, S., **Sundaresan, S.**, Selvaraj, V.K.S., *et al.* (2010). Molecular analysis of changes in the flower and leaf abscission zone transcriptome role of auxin depletion. Abstract and poster in the XVIII Congress of the Federation of European Societies of Plant Biology (FESPB), Valencia, **Spain**. Abstract P10-023, p. 142.
36. Meir, S., Jiang, C-Z., Lers, A., Philosoph-Hadas, S., Burd, S., **Sundaresan, S.**, Selvaraj, V.K.S., *et al.* (2009). Molecular analysis of the interaction of ethylene and auxin during flower abscission. **Abstract and lecture** in the 8th International Symposium on the Plant Hormone Ethylene. Cornell University, NY, **USA**.
37. Meir, S., Jiang, C-Z., Lers, A., Philosoph-Hadas, S., Burd, S., **Sundaresan, S.**, Selvaraj, V.K.S., *et al.* (2009). Molecular and functional analyses of changes in the pedicel abscission zone transcriptome following auxin depletion. Abstract and poster in the International Symposium on Auxins and Cytokinins in Plant Development (ACPD), Prague, **Czech Republic**. Abstract O6-6, p.92.
38. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., *et al.* (2009). Transcriptome profiling of ethylene related molecular changes occurring in the tomato flower and leaf abscission zones in response to auxin depletion. Abstract and oral in the Pears Foundation Alumni workshop in plant sciences, Faculty of Agriculture, HUJI, Rehovot, Israel.

National Conferences and Symposia

1. Pradeep M, V Akhila, A. Ramesh Kumar, K. Rama Krishna, **S.Srivignesh** and S. Kathiresan (2026). "Effect of Novel Plant Growth Regulators on Stress Mitigation in Acid Lime (*Citrus aurantifolia*) cv. Balaji" in the National Conference on Agriculture, Environment, and Sustainable Development

3.0 (NCAESD 2026) from conducted at Rajiv Gandhi University, Arunachal Pradesh on March 9-10, 2026, page: 30

2. Bismoy Mohanty, Kaushik Rajaram, **Sundaresan Srivignesh**, Arumuka Pravin Ayyadurai and A. Ramesh Kumar. Lytic Bacteriophages – A rational biocontrol agent for the control of Crown Gall Disease of Grapes. Abstract in 3rd International Conference on The Next Green Revolution: Trends and Challenges in Sustainable Agriculture (NGRTC SA 25) organized by Pushkaram College of Agriculture Sciences, Thiruvananthapuram, Pudukkottai, India on 14th August 2025.
3. Pradeep M, A. Ramesh Kumar, K. Rama Krishna, **S. Srivignesh** and S. Kathiresan. Modulation of Growth Dynamics in Acid Lime cv. Balaji through Foliar Application of Novel Growth Regulators during Hasta Bahar Abstract in 3rd International Conference on The Next Green Revolution: Trends and Challenges in Sustainable Agriculture (NGRTC SA 25) organized by Pushkaram College of Agriculture Sciences, Thiruvananthapuram, Pudukkottai, India on 14th August 2025.
4. Pradeep M, A. Ramesh Kumar, K. Rama Krishna, **S. Srivignesh** and S. Kathiresan (2025). Assessment of Novel Plant Growth Regulators on Reproductive Phase Transition and Yield Forecasting Metrics in Acid Lime cv. Balaji in the National Seminar on Jumpstarting Agricultural Initiatives for Sustainable Agriculture, Rural Development, and Augmenting Regional Collaborations' (JAI-SARDAR), conducted at Junagadh Agricultural University, Junagadh, Gujarat organized by Sponsored ICAR, New Delhi on December 23, 2025, page: 66 (ISBN: 978-93-48965-72-1)
5. Maniselvam, A., Krishna, K., **Srivignesh, S** and A. Ramesh Kumar (2024). Quality Improvement in Off-season Mango (*Mangifera indica* L. cv. Ruman) in the 2nd National Conference on Technology Intervention for Prospects of Agriculture In India on Department of Agricultural Economics JSA College of Agriculture and Technology, Cuddalore, India on 17th February 2024
6. Praveena P., Ramakrishna K., Suchitra R., **Sundaresan Srivignesh**., Arumukaprin Iyadurai and A. Ramesh Kumar (2024). Muffin Preparation: Replacing cane sugar with Banana fruit Pulp. Abstract and Oral in the International Conference on Precession Horticulture 2024- (ICPH 2024) organized by Horticulture College and Research Institute, Tamil Nadu Agricultural University, Periyakulam on 22-24th August 2024.
7. Priyadarsini, L., Subbiah, A., Ramesh Kumar, A., **Srivignesh, S.**, Rama Krishna, K., Kaushik Rajaram, S. Kathiresan and A. Ramesh Kumar*. 2022. Studies on yield and quality analysis of Grape var. muscat hamburg grafted on dog ridge rootstock and own rooted. Abstract and Oral (online) in the 5th Plant Science Research Meet, 2022 (PSRM) - National Conference on Agriculture, Applied and Life Sciences: Current Research, organized by Association of Plant Science Researchers and Indian Academy of Rural Development and held at Uttarakhand Open University, Nainital, India from 18-19, November, 2022. Pp:146-147.
8. H. Ragul Raj, **S. Srivignesh**, K. Ramakrishna and A. Ramesh Kumar*. 2022. Managing the post-harvest loss of aggregatum onion through pre-harvest spray of bio-stimulants. National virtual conference on Post-harvest Management: Concepts, challenges and prospects", organized by National Institute of Food technology, Entrepreneurship and Management, Thanjavur, TN and held on 18.05.22 to 19.05.22.
9. M. Deena Dayalan, **S. Srivignesh**, S. Manivannan, K. Rama Krishna, Kaushik Rajaram, S. Kathiresan and A. Ramesh Kumar*. 2023. Studies on flowering and fruiting behaviour of Water

apple. Abstract and oral in the International conference on Biodiversity, Climate change and sustainable agriculture towards food security (ICBCSAFS- 2023). Organized by Centre for Natural Farming and Sustainable Agriculture, Faculty of Agriculture, Annamalai University, Annamalai Nagar- 608 002 from 09-10, March, 2023. P: 113. ISBN: 978-81-960905-5-5.

10. Manish Kumar, **S. Srivignesh**, S. Manivannan, Dinakar Challabathula and A. Ramesh Kumar. 2023. Effect of different pruning intensities and chemicals on pod characteristics of perennial moringa (*Moringa oleifera* Lam.) cv. Kappalpatti local during off-season. Abstract and oral in the International conference on Biodiversity, Climate change and sustainable agriculture towards food security (ICBCSAFS- 2023) organized by Centre for Natural Farming and Sustainable Agriculture, Faculty of Agriculture, Annamalai University, Annamalai Nagar- 608 002 from 09-10, March, 2023. P: 114. ISBN: 978-81-960905-5-5.
11. I. Arumuka pravin, A. S. Krishnamoorthy, D. Durgadevi, P. Karthiga, K. S. Subramanian and **S. Srivignesh**. Metagenomic analysis for the detection of the quiescent presence of anthracnose causing *Colletotrichum gloeosporioides* in mango var. Alphonso fruits. Abstract and poster in the National symposium on Current and Prospective methods for detection and Management of plant diseases organized by SRM college of Agricultural sciences, Chengalpattu- September 19th, 2022. Abstract P-14, p.39
12. ArumukaPravin, I., Durgadevi, D., **Srivignesh, S.**, Subramaniyan K.S., and Krishnamoorthy A.S. (2018). Dip Treatment with Nano Emulsion Hexanal Reduces the Post- Harvest Disease and Extends the Shelf life of Mango var. Alphonso. Abstract and poster in the Challenges and Advances in Microbiology (CAM-2018), Department of Microbiology, Annamalai University, Annamalainagar. Abstract CAM-99, p. 77.
13. Durgadevi, D., **Srivignesh, S.**, ArumukaPravin, I., Subramaniyan K.S., and Janavi, G. J (2018). Biosafety of hexanal as nanoemulsion on fungal bio control agents. Abstract and poster in the Challenges and Advances in Microbiology (CAM-2018), Department of Microbiology, Annamalai University, Annamalainagar. Abstract CAM-105, p.81.
14. **Srivignesh, S.**, Durgadevi, D., ArumukaPravin, I., Janavi, G.J., and Subramaniyan K.S. (2018). Metagenomic profiling of Nano emulsion treated mango fruits using Nano pore sequencer. Abstract and poster in the Challenges and Advances in Microbiology (CAM-2018), Department of Microbiology, Annamalai University, Annamalainagar. Abstract CAM-167, p.109.
15. **Srivignesh, S.**, Durgadevi, D., ArumukaPravin, I., Philosoph-Hadas, S., and Meir, S (2017). Polygalacturonase genes in tomato flower and leaf abscission- a novel trait for molecular breeding. Abstract and Oral in the National conference on New Vistas in Vegetable Research towards Nutritional Security under changing climate scenario (NCVR-2017), Department of vegetable crops, TNAU, Coimbatore. Abstract TIV-OP-3, p.50.
16. Durgadevi, D., Harish, S., **Srivignesh, S.**, and Arumugam, T (2017). Impact of planting dates on population dynamics and seasonal incidence of foliar diseases on onion (*Allium cepa* var aggrregatum). Abstract and Oral in the National conference on New Vistas in Vegetable Research towards Nutritional Security under changing climate scenario (NCVR-2017), Department of vegetable crops, TNAU, Coimbatore. Abstract TIV-OP-9, p.130.
17. **Srivignesh, S.**, Durgadevi, D., ArumukaPravin, I., Janavi, G.J., and Subramaniyan K.S. (2017). Metagenomic profiling of Enhanced Freshness Formulation (EFF) Treated Fruits of mango var. Alphonso. Abstract and Poster in the National seminar on Nano technology for evergreen revolution, Department of Nano Science and Technology, TNAU, Coimbatore. Abstract BIO 1, p.127-128.

18. Sangeetha, V., Ponni, P., **Srivignesh, S.**, Subramaniyan, K.S., and Janavi, G.J (2017). Enhanced Freshness Formulation (EFF) Dip technology to extend the Shelf-life of mango. Abstract and Poster in the National seminar on Nano technology for evergreen revolution, Department of Nano Science and Technology, TNAU, Coimbatore. Abstract PH 8, p.102-103.
19. Durgadevi, D., ArumukaPravin, I., **Srivignesh, S.**, Subramaniyan K.S., Janavi, G.J., Paliyath, G., and Subramaniyan, J., (2017). Hexanal Vapour to Reduce Major Post-Harvest Pathogens of Banana (*Musa* sp.). Abstract and Poster in the National seminar on Nano technology for evergreen revolution, Department of Nano Science and Technology, TNAU, Coimbatore. Abstract PRO 3, p.194-195.
20. ArumukaPravin, I., Durgadevi, D., **Srivignesh, S.**, Subramaniyan K.S., and Krishnamoorthy A.S. (2017). Hexanal Vapour Treatment for the Reduction of Post-harvest Diseases of Mango. Abstract and Poster in the National seminar on Nano technology for evergreen revolution, Department of Nano Science and Technology, TNAU, Coimbatore. Abstract PRO 5, p.198-199.
21. **Srivignesh, S.**, Durgadevi, D., ArumukaPravin, I., Philosoph-Hadas, S., and Meir, S (2017). Potential role of auxin and ethylene in tomato flower and leaf abscission. Oral in the Third National Agri-Scientific Tamil Research conference, TNAU, Coimbatore, p.21-27.

BOOKS

1. **Sundaresan, S.** Tomato Leaf and Flower Abscission: Study of the regulation of genes associated with flower and leaf abscission in tomato (*Solanum lycopersicum*). 2013 LAP LAMBERT Academic Publishing, (ISBN-10: 3659390801, ISBN-13: 978-3659390807).
2. Yasin, J.K., **Sundaresan, S.**, Pratima P.T., Nanjundan, J., and Pillai M.A., (2013). Merging Plant Breeding with Crop Biotechnology. New India Publishing Agency, (ISBN-10: 9381450595, ISBN-13: 978-9381450598).
3. **S. Srivignesh**, P. Rajesh Kumar, I. ArumukaPravin, and V. Ramamoorthi (2019). Nutritional Disorders in Agricultural and Horticultural Crops. SreeKumaran Publishers, Coimbatore, Pages 217 (ISBN- 978-9388570022).
4. A. Ramesh Kumar, **S. Srivignesh** and B. Gopu (2022). Flower Biology and Hybridization Techniques in Horticultural Crops. Jaya Publishing House, New Delhi, Pages 145 (ISBN 978-9392851568)
5. A. Ramesh Kumar, **S. Srivignesh**, K. Rama Krishna and I. Arumukapraavin. 2022. Improved production techniques and value addition in cashew. Guru Xerox and Color Park, Tiruchirappalli- 620001, TN.
6. **S. Srivignesh**, A. Ramesh Kumar, I. Arumuka Pravin, V. Thondaimann and A. Anbusezhain (2023). Improved production technology, processing and value addition in cashew. Department of Horticulture, Central University of Tamil Nadu, Thiruvavur, Pages 1-35.
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BOOK CHAPTERS

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2. I. Arumuka Pravin, D. Durgadevi, **S. Srivignesh**, S. Nakkeeran, A.S.Krishnamoorthy. RNAi silencing and functional Genomics: A fungal perspective. In Enterprising Mushroom Biotechnology (Tamil Nadu Agricultural Univ, and UGC-SAP-DRS1, Coimbatore, 2017), (ISBN: 9789384909109), p. 186-196.
3. **S. Srivignesh**, D. Durgadevi, I. ArumukaPravin. Role of Auxin in tomato leaf and flower abscission In Vegetable production (Laser Publishing House, Coimbatore, 2017), (ISBN: 9789387314030), p. 21-27.
4. I. Arumuka Pravin, D. Durgadevi, **S. Srivignesh**, D. John Christopher. Integrated disease management in Groundnut against late leaf spot and rust diseases In Pathology (Laser Publishing House, Coimbatore, 2017), (ISBN: 9789387314078), p. 20-22.
5. D. Durgadevi, A. Sanakara lingam, **S. Srivignesh**. Biocontrol management of Tuberose bud rot In Pathology (Laser Publishing House, Coimbatore, 2017), (ISBN: 9789387314078), p. 64-67.
6. Natarajan, **S. Srivignesh** and K. Raja. Nano invigouration techniques to improve shelf life of seeds. In New Vistas in Seed Production, Processing, Seed Enhancement and Marketing. 2018. TNAU offset press, Coimbatore (ISBN: 9788193759035), P.
7. I. Arumuka Pravin, D. Durgadevi, **S. Srivignesh** and John Christopher. Integrated disease management in Groundnut against late leaf spot and rust diseases. In Fungal Pathogens of Crop Plants and Their Management, 2017. A.E. Publications, Coimbatore (ISBN- 9381972974). P.
8. **Sundaresan, S.**, and Yasin, J.K. Role of Genetic Engineering and Biotechnology in Crop Improvement in Merging Plant Breeding with Crop Biotechnology. (New India Publishing Agency, 2012) (ISBN-10: 9381450595, ISBN-13: 978-9381450598). P. 217-261.
9. V. Ramamoorthi, **S. Srivignesh**, S. Marimuthu and K.S. Subramanian. Bio and Nanosensors: Theory and Applications in Agriculture, In Nanotechnology in Agriculture Energy and Environment (Daya Publishing House, a division of Astral International Pvt. Limited, New Delhi, 2020) (ISBN: 9789389719338), p.421-439.
10. Kizhaeral Sevathapandian Subramanian, **Sundaresan Srivignesh**, Jayasankar Subramanian and Gnanaguru Janaki Janavi. 2020. Nanotechnologies for Preservation of Banana Fruits in Bananas & Plantains: Leading-Edge. In BANANAS and PLANTAINS - Leading edge and research development. Vol II Production and Processing. Editors: S. Uma, M. Mayil Vaganan and A. Agrawal (eds), ICAR-National Research Centre for Banana Tiruchirappalli, pp: 737-750 (ISBN: 978-81-945318-1-4).
11. Senthilkumar, S., **S. Srivignesh**, A. Ramesh Kumar and S. Manivannan. 2021. Sapota (*Manilkara achras* (Mill.) Fosberg) in TROPICAL fruit crops- Theory to Practical (Jaya Publishing house, New Delhi, 2021) (ISBN: 9789390611683), P 576-609
12. Gnanasundari, K., Ramesh Kumar, A., Senthilkumar, S., **Srivignesh, S** and Manivannan, S. 2021. Transgenics in vegetable crops and its impact on the environment. In: Interdisciplinary approaches in agriculture and forestry. Eds. Sandeep Rout, Udit Nandan Mishra and Rupak Jena. Taran Publication, New Delhi., ISBN: 978-93-92313-22-6. Pp:29-38.
13. Deena Dayalan, M., Ramesh Kumar, A., Senthilkumar, S., **Srivignesh, S** And Manivannan, S. 2021. Impacts of Flooding Stress in Fruit Crops and Its Adaptation Strategies. In: Interdisciplinary approaches in agriculture and forestry. Eds. Sandeep Rout, Udit Nandan Mishra and Rupak Jena. Taran Publication, New Delhi., ISBN: 978-93-92313-22-6. Pp:39-43.
14. **S. Srivignesh**, A. Ramesh Kumar, S. Marimuthu, N. Swathika. 2021 Allelopathy effect on forest trees, weeds, crop plants. In: Agroforestry: Prospects, strategies and future aspects. Eds. Neelam Khare et al. Taran Publications, New Delhi, India. (ISBN: 9788195339297).pp 150-166
15. A. Ramesh Kumar., **S. Srivignesh**, and K. Vijayalakshmi. 2021. Botanical classification, taxonomy and floral biology of *Solanum melongena* L. In: *Solanum melongena*: Production, Cultivation and Nutrition. Editors: A. M. Ansari, W. Hasan and M. Prakash © 2021 Nova Science Publishers, Inc., New York, USA, (ISBN: 978-1-68507-311-4). Pp 13-24

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17. Chandrabose Selvaraj, Dhurvas Chandrasekaran Dinesh, Kaushik Rajaram, **Srivignesh Sundaresan**, and Sanjeev Kumar Singh. Macromolecular chemistry: An introduction in In-Silico Approaches to Macromolecular Chemistry, 2023. Elsevier Inc, P 71-128, (ISBN 9780323909952). <https://doi.org/10.1016/B978-0-323-90995-2.00007-2>.
18. K. Gnanasundari, K. Rama krishna, **S. Srivignesh**, Manish kumar, A. Harish and A. Ramesh kumar. Processing and Value Addition in Onion In PLANTA, 2023. Association of Plant Science Researchers (APSR), Dehradun, Uttarakhand, Vol 6, P 1097– 1103. (ISBN: 978-81-953419-1-7)
19. K. Gnanasundari, **S. Srivignesh**, A. Harish, Manish Kumar, K. Rama Krishna and A. Ramesh Kumar. 2023. Integrated weed management in tomato In PLANTA. Association of Plant Science Researchers (APSR), Dehradun, Uttarakhand, Vol 6, P 1090– 1096. (ISBN: 978-81-953419-1-7)
20. Ambethgar Anbu Sezhian, Alagarsamy Ramesh Kumar, Karri Rama Krishna, **Sundaresan Srivignesh**. 2024. Applications of nanotechnology in pest Management of horticultural crops In Futuristic Trends in Chemical, Material Sciences & Nano Technology. IIP Series, Volume 3, Book 4, Part 1, Chapter 4, P 33-52 (e-ISBN: 978-93-5747-550-1)
21. I. Arumuka Pravin., A. Ramesh Kumar., Rajaram Kaushik., **S. Srivignesh**. 2024. Nanotechnological applications in Horticultural plant disease management In Futuristic Trends in Chemical, Material Sciences & Nano Technology. IIP Series, Volume 3, Book 4, Part 1, Chapter 7, P 80-102 (e-ISBN: 978-93-5747-550-1)
22. Palanisamy Karthiga., Rajaram Kaushik., Karri Rama Krishna., **Sundaresan Srivignesh**. 2024. Nanoparticles uptake, utilization and phytotoxicity in plants In Futuristic Trends in Chemical, Material Sciences & Nano Technology. IIP Series, Volume 3, Book 4, Part 1, Chapter 2, P 8-20 (e-ISBN: 978-93-5747-550-1)
23. Manish Kumar., Palanisamy Karthiga., Harish A., Ramesh Kumar A and **Sundaresan Srivignesh** (2024). Prospects of grafting in vegetable crops In Strategic approaches and practices in Vegetable production. Vital Biotech Publication, Kota, Rajasthan, 2024, P 158-170, (ISBN: 978-81-966753-2-5)
24. Palanisamy Karthiga., Kumar manish., Arumugam Harish., Alagarswamy Rameshkumar., kaushik Rajaram., **Sundaresan Srivignesh**. Prospects of nanotechnology in horticulture In Strategic approaches and practices in Vegetable production. Vital Biotech Publication, Kota, Rajasthan, 2024, P 31-51, (ISBN: 978-81-966753-2-5).
25. Ambethgar Anbu Sezhian, Iyadurai Arumukapraavin, Alagarsamy Ramesh Kumar, S. Manivannan, **Sundaresan Srivignesh**. Harnessing Proteomics for Next-Gen Biopesticides in Crops In Proteomics For Agriculture. The Publication cell, Central University of Tamil Nadu, Thiruvavur, 2025, P 16-23, (ISBN: 978-81-961610-6-4).
26. **Srivignesh Sundaresan**, M.C. Divyabharathi, S Manivannan, Alagarsamy Ramesh Kumar. Proteomics and Crop Abscission: A Detailed Study Across Species In Proteomics For Agriculture. The Publication cell, Central University of Tamil Nadu, Thiruvavur, 2025, P 147-155, (ISBN: 978-81-961610-6-4).
27. **Srivignesh.S**. Production of cashew graft plants In: Cashewnut cultivation and processing (Radio farm school on Cashewnut cultivation and Processing). ICAR-CREED Krishi Vigyan Kendra, Ariyalur District, Tamil Nadu 2025, P 11-17, (ISBN: 978-93-343-6143-3)

28. Aashik Nahas, Ardra Praveen, **Sundaresan Srivignesh**, Kaushik Rajaram. 2026. The Resurgence of Bacteriophages in Combating the Silent Pandemic of Multidrug Resistance In Emerging Trends on Approaching Antimicrobial Resistance. Scientific International Publishers, Mannargudi, Tamil Nadu, India. P 1-33 (e-ISBN: 978-93-7196-042-7)
29. M.P. Ellampirai, Manivannan Subramaniyan, **Sundaresan Srivignesh** (2026). Bio-Herbicide: A Tool for Sustainable Weed Management In New Horizons in Agriculture Lab to Land. Content Vibes, Haryana. P 13-28. P-ISBN: 978-93-67554-43-2; e-ISBN: 978-93-67552-55-1.
30. Jayasavitha K., Gokiladevi R., Moumita Malakar, Nithya R. and **Srivignesh S.** (2026). Biological Pest Management in Modern Agriculture In New Horizons in Agriculture Lab to Land. Content Vibes, Haryana. P 13-28. p-ISBN: 978-93-67554-43-2; e-ISBN: 978-93-67552-55-1.
31. Gokulapriya T., Manivannan S., Pradeep M., M.C. Divyabharathi and **S. Srivignesh.** (2026). Genetic Engineering in Agriculture In New Horizons in Agriculture Lab to Land. Content Vibes, Haryana. P 79-90. p-ISBN: 978-93-67554-43-2; e-ISBN: 978-93-67552-55-1.

POPULAR ARTICLES

1. in Magazines – 26 (languages- English and Tamil)
2. in Newspapers – 1

Faculty Development Programmes

Participated in Karmayogi programme, held on 13.10.2025 at CUTN, Thiruvavur.

TRAINING PROGRAMMES

1. Participated in the hands-on training on "Nanopore Sequencing" organized by Genotypic Technology PVT Ltd. Bangalore, India on 5th to 10th May 2017.
2. Participated in the hands-on training on "Next Generation Sequencing" organized by Genotypic Technology Pvt Ltd Bangalore, India on 19th to 23rd December 2016.
3. Participated in the hands-on training on "Microarray service" organized by Genotypic Technology Pvt Ltd Bangalore, India on 10th to 12th February 2016.
4. Participated in the hands-on training on "AmpSeq Rapid Exome Capture using Ion proton" organized by Genotypic Technology PVT Ltd. Bangalore, India on 12th to 15th September 2014.
5. Participated in the training on "Tea Production and Processing" organized by KVK, UPASI, Conoor, Nilgiris on 16th February to 2nd March 2005.
6. Participated in the training on "Coffee Production and Processing" organized by HRS, TNAU, Thadiyankudisai on 7th to 21st October 2004.

WORKSHOPS

1. Attended the workshop on "Application of Proteomics-Current status and Future prospects" organized by the Department of Biotechnology, AC&RI, Madurai on 29th August 2017.
2. Attended the International workshop on "Advanced Functional Nano materials- 4th Edition" organized by Center for Nano Science and Technology, Anna University, Chennai on 22nd to 24th March 2017.
3. Attended the International workshop on "ARO 90" organized by the Agricultural Research Organization, Bet Dagan, Israel on 2nd to 4th December 2012.

4. Attended the Pears Foundation Alumni workshop in Plant Sciences organized by The Robert H. Smith Faculty of Agriculture, Food and Environment, Rehovot, Israel on 6th to 12th September 2009.
5. Attended the workshop on "Organic Vegetable Production" organized by the Department of vegetable crops, HC&RI, Coimbatore on 8th December 2017.
6. Attended the workshop on "Grafting Techniques in Vegetable Crops" organized by the Department of vegetable crops, HC&RI, Coimbatore on 8th December 2017.
7. Attended the workshop on "Real-time PCR Analysis" organized by the Department of vegetable crops, HC&RI, Coimbatore on 7th December 2017.
8. Attended the workshop on "Vertical Gardening in Vegetable crops" organized by the Department of vegetable crops, HC&RI, Coimbatore on 7th December 2017.

EXTENSION ACTIVITIES

1. Resource person for a demonstration on "Spray technology for fruit preservation" at Village Knowledge and Resource center, HC&RI, Periyakulam, organized by MYRADA, Erode on 10.08.2017.
2. Resource person for a demonstration on "Dip technology for fruit preservation" at Chinnamanur, Theni, organized by MYRADA, Erode on 22.09.2017.
3. Served as organizing committee member and conducted demos in the "Banana festival -2017" at Madurai, organized by AC&RI Madurai and Govt of Tamil Nadu, TNAU on 21st to 23rd July 2017.
4. Served as organizing committee member and conducted demos in the "One-day workshop on Pack-house technology" at Krishnagiri, organized by TNAU and IDRC Canada, on 12.03.2018.
5. Served as organizing committee member in the "Final dissemination workshop" at TNAU, organized by TNAU and IDRC Canada, on 15.03.2018.
6. Served as organizing committee member in the "Nano Stake holder meet-2019" at TNAU, organized by the Department of Nano Science and Technology, TNAU, Coimbatore on 13.08.2019.
7. Served as Conveners in the workshop entitled "IMPACT OF CLIMATE CHANGE ON AGRO BIODIVERSITY" at CUTN, organized by Dept of Horticulture and UGC-STRIDE, Central University of Tamil Nadu on 29-30.11.2022.
8. Resource person for a demonstration on "High density planting, canopy and input management in cashew" at State Horticulture farm, Vallathirakottai, Pudukottai organized by GOI-DCCD, KOCHI, KERALA and Central University of Tamil Nadu on 10-12 .02.2023.
9. Served as organizing committee member in the Training Programme entitled "IMPROVED PRODUCTION TECHNOLOGY AND VALUE-ADDITION IN CASHEW" at State Horticulture farm, Vallathirakottai, Pudukottai, organized by GOI-DCCD, KOCHI, KERALA and Central University of Tamil Nadu on 10-12 .02.2023.
10. Resource person for Advances in Green House Technologies and Entrepreneurship One-day Workshop on Protected cultivation, organized by the VIT- School of Agricultural Innovations and Advanced Learning (VAIAL), Vellore on 15th March 2024.
11. Resource person for a training session on Package of Practices of Horticultural crops for Agri-Clinics & Agri-Business Centre (AC&ABC) Training Programme organized by The Institute of Entrepreneurship Development (IED), Dharmapuri on 3rd Nov 2023.
12. Resource person for a demonstration on "High density planting, canopy, nutrient management in cashew" at ADH office Vamban village, Thiruvarankulam, Pudukottai organized by Department of Horticulture, GOI-DCCD, Kochi, Kerala and Central University of Tamil Nadu, Thiruvavur on 7-8 .12.2023.

13. Served as organizing committee member in the Training Programme entitled "IMPROVED PRODUCTION TECHNOLOGY AND VALUE-ADDITION IN CASHEW" at ADH office Vamban village, Thiruvankulam, Pudukottai, organized by Department of Horticulture, GOI-DCCD, Kochi, Kerala and Central University of Tamil Nadu, Thiruvavur on 7-8.12.2023.
14. Resource person for a practical demonstration on one day workshop on Protected Cultivation entitled "Advances in Green House Technologies and Entrepreneurship" organized by VIT School of Agricultural Innovations and Advanced Learning (VAIAL), Vellore on 15th March 2024
15. Served as organizing committee member in the National Symposium on Proteomics for Life: The Intra and Inter Play of Proteins in Plants and Microbes" at organized by School of Life Sciences, Central University of Tamil Nadu & IARI-Rice Breeding and Genetics Research Centre on 18th March 2025.
16. Resource person for a voice demonstration on "High density planting, canopy, nutrient management in cashew" at FARM AIR SCHOOL organized by All INDIA RADIO, Tiruchirappalli broadcasted on 5.5.2025 (FM102.1mhz)
17. Accessor for the Agriculture Machinery Demonstrator batch under the (Tamil Nadu Skill Development corporation (TNSDC) at Department of Agricultural Machinery, Thiruvavur (B2025/002/1855-6351) on 22.01.2026
18. Accessor for the Certificate Course on Agricultural Farm Machinery batch under the Tamil Nadu Skill Development corporation (TNSDC) at Tamil Nadu Cooperative Union , Tiruvannamalai (B2026/002/5226-9906) on 05.03.2026

INVITED LECTURES

1. Invited lecture at 5th Annual Agricultural graduate students Conference (AAGSC) organized by Directorate of Students welfare, TNAU, Coimbatore on 4th& 5th of May 2017.
2. Invited lecture at Indo-Israel cross cluster seminar on agricultural structure organized by The Department of Horticulture and plantation crops, Govt. of Tamil Nadu & Embassy of Israel, New Delhi on 28th and 29th of Nov 2017.
3. Invited lecture at National symposium on "Horticulture in the Vanguard of Climate change and Urban Environment organized by Department of Horticulture, Annamalai University, Chidambaram on 7th and 8th of Feb 2019.
4. Invited lecture at National Seminar on Current Trends and Challenges in Sustainable Agriculture organized by Faculty Centre for Agricultural Education and Research, Ramakrishna Mission Vivekananda Educational and Research Institute, Coimbatore on 21st and 22nd of Feb 2019.
5. Invited lecture at Protected cultivation in Horticultural crops organized by ICAR- KVK Needamangalam, Tamil Nadu Agricultural University on 25th June 2021.
6. Invited lecture at Online Refresher Course in Life Sciences (from 20 10 2021 to 02 11 2021 sponsored by UGC Human Resource Development Centre, Madurai Kamaraj University, Madurai on 27th Oct 2021.
7. Invited lecture at Innovative trends in horticultural production (ITHP-21) organized by Department of Horticulture, Faculty of Agriculture, Annamalai University, Annamalai Nagar on 29th October 2021.
8. Invited lecture at TWO-DAY SEMINAR ON THE CLIMATE CHANGE: IMPACTS, THREATS, ADAPTATION AND MITIGATION STRATEGIES Organized by UGC-STRIDE and Department of Geology, School of Earth Sciences, Central University of Tamil Nadu on 9th Nov 2022

9. Invited lecture at Two-day National conference on Biotechnology for Sustainable Agriculture and Health Care (NCBSAH-2023) Organized by School of Biotechnology, Madurai Kamaraj University on 23rd and 24th March 2023.
10. Invited lecture at Anti- Microbial Resistance (AMR) Symposium organized by Department of Microbiology, Central University of Tamil Nadu, Thiruvarur on 20-21st November 2023.
11. Guest lecture on Fundamentals and Applications of Nanotechnology organized by MIT college of Agriculture and Technology, Trichy on 13th February 2024.
12. Expert lecture on Plant Hormonal Harmony: A focus on Auxins and Ethylene organized by the Department of Horticulture and Food science, VIT School of Agricultural Innovations and Advanced learning (VAIAL), Vellore on 22nd November 2024.
13. Guest lecture entitled "Climate Change Policy and Laws: Adaptation, Mitigation and Resilience in the Open Elective (Climate Change) offered by the Department of Law, Central University of Tamil Nadu, Thiruvarur on 3.04.2025
14. Invited lecture entitled "Genetic improvements in Agriculture" in DBT CAFE-2025 Seminar series organized by Department of Biotechnology, Central University of Tamil Nadu, Thiruvarur on 9th April, 2025

SCIENTIFIC AND PROFESSIONAL SOCIETY MEMBERSHIPS

1. Life member in Horticultural Society of India (**HSI**), India
2. Life member in Indian Society of Vegetable Science (**ISVS**), India
3. Life member Indian Society for Plant Physiology (**ISPP**), India
4. Life member in National Academy of Biological Science (**NABS**), India
5. Life member in Agricultural Scientific Tamil Society (**SciTSA**), India
6. Life member in Bose Science Society, TNSRO, India
7. Member of the International Society for Horticultural Science (**ISHS**), Belgium (2014-17)
8. Member of the American Society of Plant Biologists (**ASPB**), USA (2014-2015)
9. Life member in current horticulture, Society for Horticultural and Development, India
10. Life member in the Society for Advancement of Human and Nature (**SADHNA**), Dr YS Parmar University of Horticulture and Forestry, India

JOURNAL REVIEWER / EDITORIAL BOARD

1. Reviewer for Plant Cell, Tissue and Organ Culture (PCTOC), Springer Nature's Group, USA
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4. Reviewer for BMC Plant Biology (Springer Nature), United Kingdom
5. Reviewer for Frontiers in Genetics (Frontiers Media), Switzerland
6. Reviewer for Frontiers in Plant Sciences (Frontiers Media), Switzerland
7. Reviewer for Horticultural Plant Journal (Elsevier B.V.), Netherlands
8. Reviewer for Journal of Agricultural Science (Canadian Centre of Science and Education), Canada
9. Reviewer for American Journal of Agriculture Science (The American Association for Science and Technology), USA
10. Reviewer for International Journal of Agricultural Research, Innovation and Technology (IJARIT Research Foundation), Bangladesh
11. Reviewer for Vegetos Journal (Society for plant research), India

12. Associate-Editor for International Journal of Agriculture Sciences (Bio info publications), India
13. Reviewer for Journal of Horticultural Sciences (Society for Promotion of Horticulture), India
14. Reviewer for Current Agriculture Research Journal, India.
15. Reviewer in the International Journal of Horticulture (IJH) (Biopublisher), Canada
16. Reviewer in Agricultural Research & Technology (ARTOAJ) (Juniper publisher), USA
17. Reviewer in Indian Journal of Agricultural Research, Agricultural Reviews (ARCC Journals), Haryana, India. (June, 2023)



Dr. Srivignesh Sundareshan
Thiruvallur

"Agriculturists are the linchpin of mankind since they support all others who cannot till the soil" -
Thirukkural (1032) - Thiruvalluvar