



Dr. S. EZIL VENDAN

Senior Scientist & AcSIR Faculty,
Food Protectants & Infestation Control Dept.,
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RESEARCH AREAS

- Food Protection & Safety
- Volatilomics & Chromatography
- Nanotechnology & Pesticide Toxicology
- Green Technology & Grain Storage Systems
- Fumigation Technology & Insect Toxicology

EDUCATION

| | | |
|------|---|---|
| 2010 | Ph.D. Integrated Biology -Entomology | Entomology Research Institute, Loyola College, Chennai, India. |
| 2004 | M.Sc. Integrated Biology | School of Biological Sciences, Madurai Kamaraj University, Madurai, India. |
| 2001 | B.Sc. Zoology | Department of Zoology, The Madura College, Madurai, India. |

RESEARCH EXPERIENCE

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|------------------|---|
| 2021 – till date | Senior Scientist , Food Protectants & Infestation Control Dept., CSIR-Central Food Technological Research Institute, Mysore, India. |
| 2017 – 2021 | Scientist , Food Protectants & Infestation Control Dept., CSIR-Central Food Technological Research Institute, Mysore, India. |
| 2015 – 2017 | Scientist Fellow (CSIR-QHS) , Food Protectants & Infestation Control, CSIR-Central Food Technological Research Institute, Mysore, India. |
| 2013 – 2014 | Entomologist , AL-Yamama Co., Post Box 3746, Dammam 31481, Saudi Arabia. |
| 2010 – 2013 | Research Associate (DST-RA) , Research Centre, Mahavir Cancer Sansthan, Patna, Bihar, India. |

TEACHING EXPERIENCE

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| 2017 – till date | AcSIR Faculty | Ph.D. Course Work | Biological Sciences |
| 2017 – till date | AcSIR Faculty | M.Sc. Degree Course | Food Technology |
| 2015 – till date | STC Faculty | Short Term Course | Entomology |

HONOURS, AWARDS & FELLOWSHIPS

| | | |
|------|---|--|
| 2023 | Fellow of Entomological Society of India | Entomological Society of India (ESI), ICAR-IARI, New Delhi. |
| 2022 | Green Technology Innovative Award | National Environmental Science Academy (NESAs), New Delhi. |
| 2022 | Fellow of Royal Entomological Society | Royal Entomological Society (RES), St. Albans, Hertfordshire, AL2 3NS, United Kingdom. |
| 2021 | Innovative Design Thinking Award | Karpagam Academy of Higher Education, Deemed to be University, Coimbatore, TN. |
| 2019 | Gold Medal & Young Scientist Award | Motilal Nehru National Institute of Technology, Allahabad, UP. |
| 2018 | Jagar Nath Raina Memorial All India Best Publication Award | Sadhna, Dr. Y. S. Parmar University of Horticulture and Forestry, Solan, HP. |
| 2018 | Best Poster Award | 8 th International Food Convention from Association of Food Scientists and Technologists, CSIR-CFTRI, Mysore. KA. |
| 2015 | International Travel Fellowship | Centre for International Co-operation in Science (CICS), Chennai, TN. |
| 2012 | Reward of Honour | Institute for Educational Research & Innovative Action (IERIA), Bhopal, MP. |
| 2006 | JRF Fellowship | UGC, Ministry of HRD, Govt. of India, New Delhi. |
| 2003 | GATE Qualified | IIT, Ministry of HRD, Govt. of India, New Delhi. |
| 2003 | CSIR Qualified | CSIR-UGC, Ministry of HRD, Govt. of India, New Delhi. |

INVITED & GUEST LECTURES

- **Modern technologies for food protection: disinfection of insects in stored food grains**, *National Conference on Biotechnological Innovations for Sustainable Development*, Thiagarajar College, Madurai, 09th Jan. 2025.
- **Scope and opportunities in life sciences research**, *National Seminar on Research and Its Employability in Life Sciences*, K.M.G. College of Arts and Sciences, Gudiyattam. 09th Feb. 2024.
- **Fumigation and modern technologies for safe storage of food grains**, *National Seminar on Thrive for Safe Food: New and Novel Technologies*, D.D.G.D. Vaishnav College, Chennai, 06th Oct. 2023.
- **Warehouse designing and infestation control**, *17th Training Course on Advance Supply Chain Management and Food Technology*, Defence Food Research Laboratory (DFRL), Mysore, 19th July 2023.
- **Bio-fumigants from edible plant sources for the protection of stored food grains: current status and future prospects**, *2nd International Conference on Food, Bio and Nano Materials*, Karpagam Academy of Higher Education (Deemed to be University), Coimbatore, 18th March 2023.
- **Prevention and management of household pests**, *Refresher Course for Cooks of JNVs of Karnataka, Kerala and Andhra Region*, Jawahar Navodaya Vidyalaya, Mysore, 16th January 2023.
- **Fumigation and infestation control for safe storage of spices**, *Hybrid Workshop on Entrepreneurship Development in Spice Processing*, CSIR-CFTRI, Mysore, 20th September 2022.
- **Prospects of phytochemicals for stored grain and seed protection**, *Stakeholders Workshop on Grain Storage and Pest Management*, CSIR-CFTRI, Mysore, 17th - 18th August 2022.
- **Biofumigants from plant volatiles**, *7th Meeting of Indian Grain Storage Working Group*, Indian Council of Agricultural Research (ICAR), New Delhi, 20th May 2022.
- **Phytochemical volatiles as food grain protectants: opportunities and challenges**, *National Conference on Emerging Trends in Plant Science for Sustainable Development*, Bharathidasan University, Tiruchirappalli, 30th March 2022.
- **Chemical versus natural: pesticides for safe storage of food grains from insect pests**, *Guest Lecture under Star College Scheme*, St. Mary's College, Thoothukudi, 28th Jan. 2022.
- **Advanced technologies for post-harvest grain storage and insect pest control**, *Farmers Training Programme on Food Protection and Management*, Karnataka Institute of Co-operative Management, Mysore, 23rd December 2021.
- **Current challenges and future prospects in food grain storage and protection**, *National Level Seminar Series on Opportunities and Challenges in Food Processing and Preservation*, Kalasalingam Academy of Higher Education (Deemed to be University), Krishnankoil, 25th October 2021.
- **Biochemical and physiological responses against toxicants in stored product insects**, *National Seminar Series on Career Opportunities for Food Technologists*, Karpagam Academy of Higher Education (Deemed to be University), Coimbatore, 18th June 2021.

- **Post-harvest grain storage and food processing: a view**, *National Workshop on Chemistry in Everyday Life*, Vellore Institute of Technology (VIT-AP), Vijayawada, Andhra Pradesh, 17th Apr. 2021.
- **Impact of chemical pesticides in environment and status of eco-friendly pesticides use**, *2nd Virtual International Conference on Modern Biology and Environmental Management*, Vivekanandha College of Arts and Sciences for Women, Tiruchengode, 29th Mar. 2021.
- **Bioweapons: a view on crop defense and food protection against insects**, *G. N. Ramachandran Science Club Webinar Series*, Mar Athanasios College for Advanced Studies Tiruvalla (MACFAST), Kerala, 29th Sep. 2020.
- **Pesticide chemicals: present status and future challenges**, *National Conference on Environmental Sustainability Health and Pollution Abatement*, M.S.S. Wakf Board College, Madurai, 02nd Mar. 2020.
- **Insect-plant interactions and infestation tactics of insect pests**, *National Seminar on Recent Trends in Zoology*, S.B.K. College, Aruppukottai, 28th Feb. 2020.
- **Food production and protection: a view on insect pest management**, *National Conference on Wetland Biodiversity and its Conservation Strategy*, A.V.V.M. Sri Pushpam College, Thanjavur, 31st Jan. 2020.
- **Agrobiodiversity and its conservation measures**, *National Level Awareness Programme on Biodiversity and Biodiversity Act*, Arulmigu Palaniandavar Arts College, Palani, 25th Sep. 2019.
- **Current status and future perspectives in post-harvest insect pest management**, *National Seminar on Recent Development in Animal Sciences*, Aditanar College of Arts and Science, Tiruchendur, 22nd Aug. 2019.
- **Stored food protection and observation of insect pests under foldscope microscope**, *National Workshop on Foldscope & its Research Utilities*, Anandaram Dhekiyal Phookan College, Nagaon, Assam, 19th Aug. 2019.
- **Plant volatiles and non-volatiles: a view on food protection and biodiversity conservation**, *National Seminar on Science and Technology for Insect Diversity Conservation and Agricultural Progressive*, KAS College, Coimbatore, 29th July 2019.
- **Stored product insect pests and infestation control**, *Workshop on Integrated Pest Management Programme in Museums: A Modern Approach*, Regional Conservation Laboratory, Mysore, Karnataka 20th & 21st May 2019.
- **Foldscope microscopy and applications**, *Foldscope Workshop Programme*, GPWC, Imphal, Manipur, 22nd Sep. 2018.
- **Microscopic insights into the sensory systems and infestation tactics of seed borer beetles**, *Seminar cum Hands-on Training on Foldscope*, RIPANS, Ministry of Health & Family Welfare, Govt. of India, Aizawl, Mizoram, 18th Sep. 2018.
- **Insect and plant metabolites: role in defense system and applications**, *Faculty Development Programme on Techniques in Genomics, Proteomics and Bioinformatics*, Mepco Schlenk Engineering College, Virudhunagar, 16th Dec. 2017.
- **Pesticides for food protection: current status and future perspectives in india**, *International Conference on Food Microbiology & Food Safety*, D.D.G.D. Vaishnav College, Chennai, 11th Oct. 2017.
- **Natural pesticides in india in the context of intellectual property rights**, *National Conference IPRBB-2015*, A.V.V.M. Sri Pushpam College, Thanjavur, 16th Sep. 2015.

- **Assessment of carcinogenic pesticides by hplc and arsenic by arsenic-kit in biological samples**, *Contact and Motivational Programme*, Mahavir Cancer Sansthan, Patna, Bihar, 22nd Apr. 2012.
- **Environmental carcinogens and cancer risks**, Department of Zoology and Biotechnology, The Madura College, Madurai, 03rd Aug. 2011.
- **Phytochemicals in insect pest management**, P.G. and Research Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi, 06th Sep 2010.

THESIS

Vendan, S. E. 2010. Biological effects and pest control properties of chosen botanicals against *Helicoverpa armigera* Hub. and *Spodoptera litura* Fab. (Lepidoptera: Noctuidae). *Ph.D. Thesis. University of Madras, Chennai.*

Vendan, S. E. 2003. Roost and diet selection in the Indian flying fox *Pteropus giganteus* (Megachiroptera). *M.Sc. Thesis. Madurai Kamaraj University, Madurai.*

MAJOR RESEARCH PROJECTS (Ongoing/Completed)

| | | | | | | |
|-------------------|--------------------------------|--|-------|------------------------|----------------|-------------|
| 2024 - 2025 | Principal - Investigator | Design and development of grain storage system with pushing force mechanism for the prevention of insect infestation in stored food products | CFTRI | In- House | MLP320- WP7 | - |
| 2024 - 2026 | Co- - Investigator | Exploring silica loaded biopolymers for insect-resistant packaging | CFTRI | RDSF Scheme | CSP24005 | ₹12.00 Lakh |
| 2024 - 2026 | Co- - Investigator | Development of essential oil based prophylactic agents for prevention of stored grain insect pests | CSIR | CSIR- FTT Scheme | FTT20506 | ₹15.00 Lakh |
| 2024 - 2025 | Team - Member | Development of multi-optional sustainable sterilization processes for spices as an alternative to ethylene oxide and their risk assessment | CFTRI | In- House | MLP317- WP2 | - |
| 2023 - - | Co- - Investigator | Shelf life enhancement of millets through non-hermetic, | CSIR | Millet Mission | HCP52 | ₹34.68 Lakh |

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| 2025 | | hermetic and advanced methods of storage system | | | | | |
| 2023 - 2024 | Team Member | Development of export protocol for fresh okra, <i>Abelmoschus esculentus</i> | CFTRI | In-House | MLP307 | | - |
| 2022 - 2024 | Principal Investigator | Disinfestation and management of phosphine resistance insect pests: design and development of multi-fume grain storage system | CSIR | CSIR-FIRST Scheme | CSIR300 | ₹41.78 Lakh | |
| 2021 - 2024 | Co-Investigator | Development of an industrial scale cold plasma unit for decontamination of fruits and vegetables | MoFPI | R & D Scheme | GAP615 | ₹21.29 Lakh | |
| 2021 - 2022 | Team Member | An integrated program for value addition to the superfood – Chia (<i>Salvia hispanica</i>) | CFTRI | In-House | MLP296 | | - |
| 2021 - 2022 | Team Member | Ozone system development for iron removal from water and aflatoxin, bacterial mitigation in food grains | ORAIP L | R & D Applications | CLP21 | | - |
| 2020 - 2024 | Principal Investigator | Scaling up the bio-fumigation technology for protection of stored food commodities from insect pests | CSIR | ATLAS Mission | HCP31-WP1.4 | ₹70.02 Lakh | |
| 2020 - 2024 | Team Member | Development of a novel effective bioformulation against stored grain and vegetable pest | CSIR | Flori-culture Mission | HCP37 | | - |
| 2019 - 2020 | Principal Investigator | Development of aromatic bio-fumigation process with air pressure for safe storage of post-harvest pulses and grains in storage bags | CFTRI | In-House | MLP252 | | - |
| 2018 - 2020 | Principal Investigator | Development of bio-fumigation system for safe storage of food commodities | MoFPI | R & D Scheme | GAP533 | ₹16.46 Lakh | |

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| | | against stored product insect pests | | | | |
| 2018 - 2019 | Principal Investigator | Can visual sensation super impose olfactory sensation in the oviposition behavior of pulse beetle and rice weevil? | DBT | Foldsco pe Scheme | GAP527 | ₹8.00 Lakh |
| 2018 - 2018 | Team Member | Study of ovicidal action of phosphine generated from quickphos aluminium phosphide tablets on selected stored grain insects | UPL | R & D Scheme | SSP247 | ₹11.80 Lakh |
| 2017 - 2019 | Principal Investigator | Development of domestic scale storage bin for control of insect pests in stored food grains using plant based repellents | CFTRI | In-House | MLP210 | ₹28.25 Lakh |
| 2016 - 2017 | Team Member | Multifaceted strategy for detection and control of insect infestation in rice | CFTRI | In-House | MLP196 | - |

TRAINING & CERTIFICATE COURSES

- 2024 **ISO 9001:2015 audit training course** conducted by Lloyd's Register Quality Assurance (LRQA) and CSIR-CFTRI, Mysore.
- 2017 **Intellectual property rights and related issues**, workshop organized by CSIR-HRDC, Ghaziabad and CSIR-CFTRI, Mysore.
- 2007 **Post harvest entomological techniques for insect free grain storage to achieve nutritional security**, training programme sponsored by ICAR and organized by Tamil Nadu Agricultural University (TNAU), Coimbatore.
- 2001 **CCA (Certificate Course in Computer Application)** course conducted by TMC education, Madurai, India, recognized by New Delhi government.

SCIENTIFIC PROGRAMMES ORGANIZED

- Panel Discussion on **Academia – Industry** under CSIR-CFTRI One Week One Lab event, *Convener*, CSIR-CFTRI, Mysore, Karnataka, 06th July 2023.

- Industry Meet, **Bio-Fumigation Technology for Safe Storage of Food Grains, Programme Coordinator**, CSIR-CFTRI, Mysore, Karnataka, CSIR (ATLAS Mission) sponsored, 21st March 2023.
- Workshop Programme, **NER Twinning Programme cum Foldscope Seminar & Training, Organizing Secretary**, CSIR-CFTRI, Mysore, Karnataka, DBT sponsored, 19th Feb. 2019.
- Outreach Programme, **Observation of Stored Product Insect Pests under Foldscope, Programme Coordinator**, Soorahalli, Karnataka, DBT sponsored, 29th Nov 2018.
- Student Motivation Programme, **Contact Programme for Talented +2 Science Students 2010, Active Volunteer Organizer**, Mahavir Cancer Sansthan, Patna, Bihar, Prof. A. Nath, PI-DST & Head, 19th to 25th Sep. 2010.
- Farmers Awareness Programmes, **Promotion of Biopesticides, Biofertilizers and Biocontrol agents, Team Leader**, Dr. S. Ignacimuthu, PI-DST & Director, Entomology Research Institute, Chennai, 2006 – 2010.

COUNTRIES VISITED [Professional / Academic purpose]

- Saudi Arabia & Egypt

SELECTED PUBLICATIONS [Total Citations – 1155; i10-index – 19; h-index - 16]

1. Sreekrishnakumar, A. K., Lokesh, M., Sahu, U. and **S. E. Vendan**. 2025. Can volatile sulfides act as fumigant or contact toxicant in cowpea weevil, *Callosobruchus maculatus* F.?: a comparative analysis. *Natural Product Research*. (DOI: 10.1080/14786419.2025.2451220) (**IF – 2.465**)
2. Madhurya, L., Panneerselvam, A., Sreekrishnakumar, A. K., Anand, A., Gowda, T. S. and **S. E. Vendan**. 2024. Intensification of biofumigant stability: Preparation of peppermint-piperitone nanoemulsion for effective fumigation against stored-product beetles. *Journal of Food Science and Technology*. (<https://doi.org/10.1007/s13197-024-06181-z>) (**IF – 3.508**)
3. Sreelakshmi, V. P., **Vendan, S. E.** and P. S. Negi. 2025. Cold plasma treatment for decontamination of pesticide residues and preservation of spinach leaves. *Postharvest Biology and Technology*. 220: 113322. (DOI: 10.1016/j.postharvbio.2024.113322) (**IF – 7.00**)
4. Madhurya, L., Aswathi, K. S., Sahu, U., Gowda, T. S., Anand, A. and **S. E. Vendan**. 2024. Insight into the synergistic action of plant volatiles as biofumigants against *Sitophilus oryzae*,

Tribolium castaneum, and *Callosobruchus maculatus* adults. *Journal of Biological Control*. 38(4): 438-452. (DOI: 10.18311/jbc/2024/44278) (IF – **0.316**)

5. Murugesan, R., Rejoy, P. A. P., Aswathi, K. S. and **S. E. Vendan**. 2024. Foldscope coupled with smartphone view on antennal and wing morphometrics of the stored-product beetle pests. *Journal of Entomological Research*. 48(3): 384-386. (DOI : 10.5958/0974-4576.2024.00075.8) (IF – **0.248**)
6. Lokesh, M., Aswathi, K. S., Sahu, U. and **S. E. Vendan**. 2024. Influence of molecular descriptors of plant volatiles on fumigant action against the three major stored-product beetle pests. *Environmental Science and Pollution Research*. 31: 35455-35469. (DOI : 10.1007/s11356-024-33483-8) (IF – **5.80**)
7. Sreelakshmi, V. P., **Vendan, S. E.** and P. S. Negi. 2024. The effect of cold plasma treatment on quality attributes and shelf life of apples. *Postharvest Biology and Technology*. 214: 112975. (<https://doi.org/10.1016/j.postharvbio.2024.112975>) (IF – **7.00**)
8. Gawali, P. P., Toragall, V., Madhurya, L., Yannam, S. K. and **S. E. Vendan**. 2024. Physicochemical comparison of chitin characteristics in three major stored-product beetle pests: Implications for biofumigant toxicity. *International Journal of Biological Macromolecules*. 265: 130759. (<https://doi.org/10.1016/j.ijbiomac.2024.130759>) (IF – **8.20**)
9. Lokesh, M., Panneerselvam, A., Gawali, P. P., Aswathi, K. S., Sahu, U. and **S. E. Vendan**. 2024. Profiling of semiochemicals of three stored product beetles by headspace solid-phase microextraction coupled with gas chromatography-mass spectrometry. *Natural Product Research*. 38(17): 3063-3069. (DOI: 10.1080/14786419.2023.2200945) (IF – **2.465**)
10. Sahu, U., Theertha, D. P., Nazeer, M., Madhurya, L. and **S. E. Vendan**. 2023. Physico-chemical stress alters cuticular semiochemical secretions in the red flour beetle, *Tribolium castaneum* adults. *Journal of Pest Science*. 97: 1259-1268. (<https://doi.org/10.1007/s10340-023-01692-8>) (IF – **5.974**)
11. Madhurya, L., Nazeer, M., Sahu, U. and **S. E. Vendan**. 2023. Contamination risk of aluminium phosphide residues on the packed wheat grain sacs. *Journal of Entomological Research*. 47(2): 458-460. (DOI : 10.5958/0974-4576.2023.00083.X) (IF – **0.248**)
12. Ibrahim, S. S., Sahu, U., Karthik, P. and **S. E. Vendan**. 2023. Eugenol nanoemulsion as bio-fumigant: enhanced insecticidal activity against the rice weevil, *Sitophilus oryzae* adults. *Journal of Food Science and Technology*. 60: 1435-1445. (<https://doi.org/10.1007/s13197-023-05690-7>) (IF – **3.508**)
13. Madhurya, L., Sahu, U., Devi, S. S., Babu, C. S. V. and **S. E. Vendan**. 2021. Scope of herbal disinfectants to fight against SARS-CoV2 virus. *Tropical Biomedicine*. 38(4): 605-612. (<https://doi.org/10.47665/tb.38.4.104>) (IF – **0.776**)

14. Noore, S., Ramesh, G., **Vendan, S. E.** and V. D. Nagaraju. 2021. Persistence and diffusion behaviour of chlorpyrifos in five different species of vegetables: a comparative analysis. *Ecotoxicology and Environmental Safety*. 217: 112208. (<https://doi.org/10.1016/j.ecoenv.2021.112208>) (**IF – 6.68**)
15. Sahu, U., Ibrahim, S. S. and **S. E. Vendan**. 2021. Persistence and ingestion characteristics of phytochemical volatiles as bio-fumigants in *Sitophilus oryzae* adults. *Ecotoxicology and Environmental Safety*. 210: 111877. (<https://doi.org/10.1016/j.ecoenv.2020.111877>) (**IF – 6.68**)
16. **Vendan, S. E.**, Manivannan, S., Sunny, A. M. and P. Murugesan. 2017. Phytochemical residue profiles in rice grains fumigated with essential oils for the control of rice weevil. *PLoS ONE*. 12(10): 1-17 e0186020. (<https://doi.org/10.1371/journal.pone.0186020>) (**IF – 3.582**)
17. Manivannan, S. and **S. E. Vendan**. 2017. Insights into the functional potential of the rice weevil rostrum based on microstructure. *The Journal of Animal and Plant Sciences*. 27(2): 688-690. (**IF – 0.606**)
18. **Vendan, S. E.** 2017. Innovation in green-chemical technology for insect pest management: need for application oriented research and commercialization of products. *Trends in Biosciences*. 10(6): 1327-1329.
19. **Vendan, S. E.** 2016. Current scenario of biopesticides and eco-friendly insect pest management in India. *South Indian Journal of Biosciences*. 2(2): 268-271. (doi: 10.22205/sijbs/2016/v2/i2/100315)
20. Balamurugan, R., **Vendan, S. E.**, Aravinthan A. and Jong-Hoon Kim. 2015. Isolation and structural characterization of 2R, 3R taxifolin 3-O-rhamnoside from ethyl acetate extract of *Hydnocarpus alpina* and its hypoglycemic effect by attenuating hepatic key enzymes of glucose metabolism in streptozotocin-induced diabetic rats. *Biochimie*. 111: 70-81. (doi:10.1016/j.biochi.2015.02.003) (**IF – 4.273**)
21. Nattudurai, G., **Vendan, S. E.**, Paulraj, M. G. and S. Ignacimuthu. 2014. Vermicomposting of coirpith with cowdung by *Eudrilus eugeniae* Kinberg and its efficacy on the growth of *Cyamopsis tetragonaloba* (L) Taub. *Journal of The Saudi Society of Agricultural Sciences*. 13: 23-27. (<https://doi.org/10.1016/j.jssas.2012.12.003>) (**IF – 5.910**)
22. Nath, A., **Vendan, S. E.**, Priyanka, Singh, J. K., Singh, C. K. and S. Kumar. 2013. Carcinogenic pesticides residue detection in cow milk and water samples from Patna, India. *Current Trends in Biotechnology & Chemical Research*. 3(1): 1-7.
23. Packiam, S. M., Anbalagan, V., Ignacimuthu, S. and **S. E. Vendan**. 2012. Formulation of a novel phytopesticide *PONNEEM* and its potentiality to control generalist herbivorous Lepidopteran insect pests, *Spodoptera litura* (Fabricius) and *Helicoverpa armigera* (Hubner)

(Lipidoptera: Noctuidae). *Asian Pacific Journal of Tropical Disease*. S2: 720-723. (doi: 10.1016/S2222-1808(12)60251-5)

24. Nath, A., Singh, J. K., **Vendan, S. E.**, Priyanka, Anamika. and S. Sinha. 2012. High risk of oral cancer in North India. *Current Science*. 102 (4): 556. **(IF – 0.816)**
25. Nath, A., Singh, J. K., **Vendan, S. E.**, Priyanka. and S. Sinha. 2012. Elevated level of prostate specific antigen among prostate cancer patients and high prevalence in Gangetic zone of Bihar, India. *Asian Pacific Journal of Cancer Prevention*. 13 (1): 451-453. (DOI: 10.7314/APJCP.2012.13.1.221) **(IF – 1.892)**
26. Nath, A., Singh, J. K., **Vendan, S. E.** and Priyanka. 2011. Female reproductive cancers incidence in Bihar, India with the risk of xenoestrogenic arsenic in serum and in drinking water sources. In: Proceedings of the Second AACR International Conference on Frontiers in Basic Cancer Research; 2011 Sep 14-18; San Francisco, CA. Philadelphia (PA): AACR; *Cancer Research*. 2011; 71(18 Suppl): 29. (doi: 10.1158/1538-7445.FBCR11-B29)
27. **Vendan, S. E.** 2011. Endosulfan ban in India: for good or not?. *Current Science*. 101 (11): 1398. **(IF – 0.816)**
28. Lingathurai, S., **Vendan, S. E.**, Paulraj, M. G. and S. Ignacimuthu. 2011. Antifeedant and larvicidal activities of *Acalypha fruticosa* Forssk. (Euphorbiaceae) against *Plutella xylostella* L. (Lepidoptera: Yponomeutidae) larvae. *Journal of King Saud University (Science)*. 23: 11-16. (DOI: 10.1016/j.jksus.2010.05.012) **(IF – 3.972)**
29. **Vendan, S. E.** and A. A. P. Anand. 2010. Is Masters of Philosophy worth pursuing?. *Current Science*. 99 (8): 994. **(IF – 0.816)**
30. Valanarasu, M., Kannan, P., **Vendan, S. E.**, Ganesan, G., Ignacimuthu, S. and P. Agastian. 2010. Antifungal and antifeedant activities of extracellular product of *Streptomyces* spp. ERI-04 isolated from Western Ghats of Tamil Nadu. *Journal of Medical Mycology*. 20 (4): 290-297. (Doi: 10.1016/j.mycmed.2010.09.001) **(IF – 3.426)**
31. Anand, A. A. P., Vennison, S. J., Sankar, S. G., Prabhu, I. G., Vasani, P. T., Raghuraman, T., Geoffrey, C. J. and **S. E. Vendan**. 2010. Isolation and characterization of bacteria from the gut of *Bombyx mori* that degrade cellulose, xylan, pectin and starch and their impact on digestion. *Journal of Insect Science*. 10 (107): 1-20. (doi: 10.1673/031.010.10701) **(IF – 2.024)**
32. **Vendan, S. E.**, Lingadurai, S., Paulraj, M. G. and S. Ignacimuthu. 2010. Bioefficacy of neem oil formulation with *Hydnocarpus alpina* Wt. leaf extract against *Spodoptera litura* Fab. *International Journal of Current Research*. 3: 78-82.
33. **Vendan, S. E.**, Lingadurai, S., Paulraj, M. G. and S. Ignacimuthu. 2010. Incidence of *Spodoptera litura* Fab. (Lepidoptera: Noctuidae) on *Argemone mexicana* Linn. (Papaveraceae). *Insect Environment*. 16 (1): 20-21.

34. Anand, A. A. P, **Vendan, S. E.** and B. Kaleeswaran. 2010. Your memory depends on your sleep. *Asian Journal of Science and Technology*. 1: 32-35.
35. Baskar, K., Kingsley, S., **Vendan, S. E.**, Paulraj, M. G., Duraipandiyan, V. and S. Ignacimuthu. 2009. Antifeedant, larvicidal and pupicidal activities of *Atlantia monophylla* (L) Correa against *Helicoverpa armigera* Hubner. (Lepidoptera: Noctuididae). *Chemosphere*. 75: 355-359. (doi:10.1016/j.chemosphere.2008.12.034) (**IF – 8.125**)
36. Lingathurai, S., Vellathurai, P., **Vendan, S. E.** and A. A. P. Anand. 2009. A comparative study on the microbiological and chemical composition of cow milk from different locations in Madurai, Tamil Nadu. *Indian Journal of Science and Technology*. 2 (2): 1-4. (doi: 10.17485/ijst/2009/v2i2/29394)
37. Ignacimuthu, S. and **S. E. Vendan**. 2008. Botanical pesticides in insect pest management. *Uttar Pradesh Journal of Zoology*. 4 (1): 141-154.
38. Pavunraj, M., **Vendan, S. E.** and S. Ignacimuthu. 2006. Digestion of cellulose and starch by symbiotic bacteria in the gut of the giant tiger prawn *Peaneous monodon* (F.). *Journal of Advanced Zoology*. 27 (2): 56-60. (**IF – 0.029**)

BOOK CHAPTERS & PROCEEDINGS

1. Sahu, U., Malik, T., Ibrahim, S. S., **Vendan, S. E.** and P. Karthik. 2022. Pest management with green nanoemulsions. In *Bio-based Nanoemulsions for Agri-Food Applications*, Kamel A. Abd-Elsalam and Kasi Murugan (Eds), Elsevier Publishers, pp 177-195. (ISBN: 978-0-323-89846-1)
2. Sahu, U., Sreevathsan, S., Mudliar, S. N. and **S. E. Vendan**. 2021. Fumigant toxicity of garlic essential oil with the combined effect of ozone gas and determination of phytochemical residues from the treated rice weevil *Sitophilus oryzae* and wheat grains. In: Jayas D.S. and F. Jian (eds), Proceedings of the 11th International Conference on Controlled Atmosphere and Fumigation in Stored Products (CAF2020), CAF Permanent Committee Secretariat, Winnipeg, Canada. Pp. 261 – 268. (ISBN: 978-0-323-89846-1)
3. **Vendan, S. E.**, Paulraj, M. G. and S. Ignacimuthu. 2010. Glutathione S-transferase activity and larval mortality in taxifolin 3-O-rhamnoside treated *Helicoverpa armigera* Hub. and *Spodoptera litura* Fab. In *Non-chemical Insect Pest Management*, Ignacimuthu, S. and David, B.V. (Eds), Elite Publishers, New Delhi, pp 64-71. (ISBN-13: 978-8188901418)
4. **Vendan, S. E.**, Baskar, K., Paulraj, M. G. and S. Ignacimuthu. 2009. Antifeedant and larvicidal effects of *Hydnocarpus alpina* Wt. (Flacourtiaceae) extracts against the larvae of *Helicoverpa armigera* Hub. (Lepidoptera: Noctuidae). In *Ecofriendly Insect Pest Management*, Ignacimuthu, S. and David, B.V. (Eds), Elite Publishers, New Delhi, pp 210-216. (ISBN-13: 978-8188901371)

5. **Vendan, S. E.**, Kaleeswaran, B., Baskar, K. and A. A. P. Anand. 2008. Conservation Status of Indian flying fox, *Pteropus giganteus* in Tamil Nadu, South India. In *Wildlife Biodiversity Conservation*, Vikram Reddy, M. (Ed.), Daya Publishers, New Delhi, pp 81-91. (ISBN 13: 978-8170355298)
6. **Vendan, S. E.**, Baskar, K., Lingadurai, S., Ramar, M., Paulraj, M. G. and S. Ignacimuthu. 2008. Effect of plant extracts on larval development of *Helicoverpa armigera*. In *Recent Trends in Insect Pest Management*, Ignacimuthu, S. and Jayaraj, S. (Eds), Elite Publishers, New Delhi, pp 215-219. (ISBN 13: 978-8188901333)
7. Lingathurai, S., **Vendan, S. E.**, Paulraj, M. G. and S. Ignacimuthu. 2008. Antifeedant and growth inhibiting effects of *Morinda tinctoria* Roxb. against *Spodoptera litura* (Fab.) (Lepidoptera: Noctuidae). In *Recent Trends in Insect Pest Management*, Ignacimuthu, S. and Jayaraj, S. (Eds), Elite Publishers, New Delhi, pp 195-200. (ISBN 13: 978-8188901333)
8. Durairandiyan, V., **Vendan, S. E.**, Khaleel, K. M. and S. Ignacimuthu. 2008. Antifeedant activity of golden leather fern, *Acrostichum aureum* L. against asian armyworm *Spodoptera litura* Fab. In *Recent Trends in Insect Pest Management*, Ignacimuthu, S. and Jayaraj, S. (Eds), Elite Publishers, New Delhi, pp 191-194. (ISBN 13: 978-8188901333)
9. Kaleeswaran, B., **Vendan, S. E.**, Ganesh, B. P. and S. Bhavatarini. 2008. Biodiversity and Niches of Ants in Alagar Hills, Tamil Nadu. In *Wildlife Biodiversity Conservation*, Vikram Reddy, M. (Ed.), Daya Publishers, New Delhi, pp 188-208. (ISBN 13: 978-8170355298)
10. Baskar, K., Kingsley, S., **Vendan, S. E.** and S. Ignacimuthu. 2008. Feeding deterrence of some plant extracts against asian armyworm, *Spodoptera litura* Fab. (Lepidoptera: Noctuidae). In *Recent Trends in Insect Pest Management*, Ignacimuthu, S. and Jayaraj, S. (Eds), Elite Publishers, New Delhi, pp 225-227. (ISBN 13: 978-8188901333)
11. Ramar, M., Durairandiyan, V., Paulraj, M. G., **Vendan, S. E.** and S. Ignacimuthu. 2008. Larvicidal and pupicidal properties of *Croton sparciflorus* Linn. (Euphorbiaceae) leaf extract against *Culex quinquefasciatus* Say. In *Recent Trends in Insect Pest Management*, Ignacimuthu, S. and Jayaraj, S. (Eds), Elite Publishers, New Delhi, pp 236-239. (ISBN 13: 978-8188901333)

BOOKLETS

- Hospet, R., **Vendan, S. E.**, Babu, C. S. V. and P. M. Halami. 2022. Compendium on Biology of Stored Product Insects and their Management. *Published by The Director, CSIR-CFTRI, Mysore*, V.1.0, pp 1-46.

PATENTS

- **Vendan, S. E.,** Babu, C. S. V., Hospet, R and P. G. Pratiksha. 2024. Biofumigation system for food grain storage and process for food protection therefrom. (Filed reference no. 202411071606; dt 20.09.2024)
- **Vendan, S. E.,** Babu, C. S. V., Hospet, R and P. G. Pratiksha. 2024. Synergistic biofumigant formulation for the control of stored product insect pests. (Filed reference no. 202411061532; dt 13.08.2024)

PRODUCTS / TECHNOLOGIES DEVELOPED

1. Herbal bulk sanitizer product (CFTRI PDRU No. CMF 3680; 2021)*
2. Herbal fogging disinfectants for mist sanitizer system (CFTRI PDRU No. CMF 3660; 2021)#
3. Herbal potable spray sanitizer (CFTRI PDRU No. CMF 3670; 2021)#
4. Herbal hand sanitizer - Gel form (CFTRI PDRU No. CMF 3640; 2021)#
5. Herbal hand sanitizer - Liquid form (CFTRI PDRU No. CMF 3650; 2021)#

*Inventor, #Co-Inventor

RESEARCH PAPER PRESENTATIONS

- 2022 International Conference on Natural Science and Green Technologies for Sustainable Development, Goa University, Goa, India (***Oral Presentation***)
- 2019 National Conference on Advances in Microscopy and Foldscope, Motilal Nehru National Institute of Technology (MNNIT), Allahabad, India (***Oral Presentation***)
- 2017 6th National Conference on Natural Science, Holy Cross College, Trichy, India. (***Oral Presentation***)
- 2016 Institute Seminar Programme, CSIR-Central Food Technological Research Institute, Mysore, India. (***Oral Presentation***)
- 2016 International Conference on Climate Change and its Implications on Crop Production and Food Security, BHU, Varanasi, India. (***Oral Presentation***)
- 2015 4th International Conference of Eco-friendly Applied Biological Control of Agricultural Pests and Phytopathogens, **Cairo, Egypt.** (***Oral Presentation***)
- 2012 International Conference on Reproductive Health with Emphasis on Strategies for Family Planning, ICMR, New Delhi, India. (*Poster Presentation*)
- 2012 National Conference on Climate Change, Biodiversity and Conservation, St. Andrew College, Gorakhpur, Uttar Pradesh, India. (***Oral Presentation***)

- 2012 National Seminar on Frontiers in Environmental Pollutants, Health and Applied Genetics, Mahavir Cancer Sansthan, Bihar, India. (**Oral Presentation**)
- 2011 AACR International Conference on New Horizons in Cancer Research: Biology to Prevention to Therapy Conference, Delhi, India. (*Poster Presentation*)
- 2011 4th Bihar Science Conference 2011, L.S. College, Muzaffarpur, Bihar, India. (*Poster Presentation*)
- 2009 5th International Conference on Biopesticides: Stakeholders Perspectives, The Energy and Resources Institute (TERI), New Delhi, India. (*Poster Presentation*)
- 2009 National Conference on Biotechnological Approaches for Ecofriendly Insect Pest Management, University of Madras, Chennai, India. (**Oral Presentation**)
- 2009 National Symposium on Non-chemical Insect Pest Management, Entomology Research Institute, Loyola College, Chennai, India. (**Oral Presentation**)
- 2009 Seminar on Recent Trends in Biological Sciences, Post-Graduate and Research Pachaiyappa's College, Chennai, India. (**Oral Presentation**)
- 2008 National Symposium on Ecofriendly Insect Pest Management, Entomology Research Institute, Loyola College, Chennai, India. (**Oral Presentation**)
- 2007 National Symposium on Recent Trends in Insect Pest Management, Entomology Research Institute, Loyola College, Chennai, India. (**Oral Presentation**)
- 2006 National Seminar on Wildlife Biodiversity Conservation, School of Life Sciences, Pondicherry University, Pondicherry, India. (**Oral Presentation**)
- 2006 National Conference on Biodiversity, Dept. of Advanced Zoology and Biotechnology, Loyola College, Chennai, India. (**Oral Presentation**)
- 2003 Science Day and Aqua-Terr Annual Symposium, School of Biological Sciences, Madurai Kamaraj University, Madurai, India. (*Poster Presentation*)

PG / DOCTORAL / POST DOCTORAL RESEARCH GUIDANCE (Ongoing/Completed)

| | | | |
|--|--|------------------------------|------------------|
| ¹ Mr. A. Ragul | PG Research Scholar (M.Sc. Biotechnology) | Dissertation Project | 2025 – till date |
| ¹ Mr. S. Manikannan | PG Research Scholar (M.Sc. Biotechnology) | Dissertation Project | 2024 – till date |
| ¹ Mrs. K. S. Aswathi [@] | Ph.D. Research Scholar (JRF & SRF-UGC) | AcSIR Ph.D. Program | 2020 – till date |
| ² Ms. P. P. Gawali | Ph.D. Research Scholar (JRF & SRF-CSIR) | AcSIR Ph.D. Program | 2020 – till date |
| ¹ Ms. L. Madhurya ^{\$} | Ph.D. Research Scholar (JRF & SRF-UGC) | Mysore Univ. Program | 2020 – 2024 |
| ³ Dr. S. S. I. Mohamed [#] | Post-Doctoral Fellow (TWAS-CSIR) | International PDF Program | 2020 – 2021 |

¹Dr. U. Sahu* Ph.D. Research Scholar AcSIR Ph.D. 2018 – 2023
(JRF & SRF-CSIR) Program

¹Guide, ²Co-Guide, ³Mentor

*Received Young Researcher Award – NESAI 2023

@Received Best Poster Presentation Award – ICFBN 2023

§Received Best Oral Presentation Award – WARM-FoST 2023

§Received Best Oral Presentation Award – MFPS 2023

§Received Best Oral Presentation Award – AMRMIC 2022

*Received Innovative Design Thinking Award – KAHE 2021

*Received Best Poster Presentation Award – ET FPIC 2021

#Received Best Oral Presentation Award – ICETB 2020

*Received Best Poster Presentation Award – NAC 2019

PROJECT FELLOWS / TRAINEE RESEARCH GUIDANCE (Ongoing/Completed)

Mrs. D.P. Theertha*
(JRF, GAP-527)

Mrs. L. George
(SRF, GAP-533)

Dr. K. Sowndhararajan
(Trainee, SRTP-2020)

Dr. A.L.V. Swamy
(Trainee, SRTP-2020)

Mr. V.T.T. Selvan
(Trainee, SRTP-2020)

Ms. S. Noore
(PA, MLP-222)

Ms. A.S. Mathews[§]
(PG Research)

Ms. S. Tripathy
(PA, GAP-615)

Mr. A. Anand
(PA, HCP-37)

Ms. S. Tanushree
(PA, HCP-37)

Ms. M. Devi[#]
(PG Research)

Mr. M. Nazeer^a
(PA, HCP-31)

Ms. V.S. Yazhini
(PA, MLP-300)

Mr. N.M.N. Macarius^b
(PA, MLP-300)

Mr. K. Viji
(SA, HCP-31)

Ms. Sreelakshmi
(PA, GAP-615)

Mrs. S. Venkatama
(SA, HCP-31)

Mr. A.R. Shivakumar[@]
(PG Research)

Dr. R. Murugesan
(PA, MLP-300)

Dr. R. Hospet
(RA, HCP-31)

Mr. P.A.P. Rejoy
(PA, MLP-300)

Dr. M.R. Smruthi
(RA, HCP-31)

Ms. R. Chithra
(PA, HCP-31)

[@]Received Best Poster Presentation Award (OWOL 2023)

[§]Received BIRAC SITARE - Appreciation Grant Award (2020)

*Received Best Poster Award (IFCoN-2018)

[#]Received RUSA-2.0 Grant Award for dissertation project

^aQualified GATE fellowship award

^bQualified INSPIRE fellowship award

DOCTORAL RESEARCH GUIDANCE – Ph.D. Degree Awarded

Sahu, U. 2024. Physiological and toxicological effects of phytochemical volatiles on *Sitophilus oryzae* (Rice weevil): A comprehensive study. *Ph.D. Thesis, Academy of Scientific and Innovative Research (AcSIR)*.

POST-DOCTORAL RESEARCH GUIDANCE – Completed

Mohamed, S. S. I. 2021. Nanoencapsulation and bioformulation of essential oils to control the grain beetle *Sitophilus oryzae* and pulse beetle *Callosobruchus chinensis*. *Post-Doctoral Project Report, Council of Scientific and Industrial Research – The World Academy of Sciences (CSIR-TWAS)*.

PG/UG DISSERTATION RESEARCH GUIDANCE - Completed

Mandhata, S. 2024. Determination of thermal stability of garlic sulphides by gas chromatography techniques and analysis of toxicities by insecticidal bioassays. *M.Tech. Internship Report, Biotechnology, KIIT University, Bhubaneswar, Odisha*.

Udhayashri, S. 2024. Influence of host plant volatiles in ovipositional preference behavior of female, *Callosobruchus chinensis*, L. (Coleoptera: Chrysomelidae). *M.Sc. Internship Report, Microbiology, Dr. N.G.P. Arts and Science College, Coimbatore, Tamil Nadu*.

Benarji, N. 2024. Self-life enhancement of biofumigants using nanoemulsions for the protection of stored food grains from insect pests. *M.Sc. Thesis, Biotechnology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu*.

Aravind, S. 2024. Diffusion and toxicological characteristics of phytochemical volatile against stored grain insect pests. *M.Sc. Thesis, Biotechnology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu*.

Shivakumar, A. R. 2023. Contamination risk of carcinogenic benzoquinones in flour beetle infested grain flours. *M.Sc. Thesis, Food Technology, CSIR-CFTRI, Mysore, Karnataka*.

Abinaya, V., Kesavapriya, S., Mahalakshmi, R. and R. Ramyapriya. 2023. Investigation of fumigant toxicity of selected gases and phytochemicals against *Sitophilus oryzae*. *B.Tech. Thesis, Biotechnology, Dhanalakshmi Srinivasan Engineering College, Perambalur, Tamil Nadu*.

Kumari, S. 2022. Preparation of essential oil and phytochemical volatiles based nanoemulsion formulations and evaluation of fumigant toxicity against pulse and grain beetle pests. *M.Sc. Thesis, Biotechnology, Vinoba Bhave University, Hazaribag, Jharkhand*.

Nihal, M. C. 2022. Comparative analysis of fumigant toxicity of phytochemical extracts of spice wastes with spice essential oils: An approach for ecofriendly insect pest management and waste management. *M.Sc. Thesis, Food Technology & Quality Assurance, Mount Royal College, Munnar, Kerala*.

Thomas, A. V. 2022. Fumigant toxicity of selected three essential oils against *Sitophilus oryzae* and *Callosobruchus maculatus* and diffusional characteristics of bioactives on the stored

- food grains. *M.Sc. Thesis, Food Technology & Quality Assurance, Mount Royal College, Munnar, Kerala.*
- Thampikutty, S. 2022. Estimation of dust, heavy metals and pesticide residue contaminants on the fresh food market samples collected at Mysuru, Karnataka, India. *M.Sc. Thesis, Food Science and Technology, St. Joseph's College, Bangalore, Karnataka.*
- Devi, M. 2022. Impact of phytochemical fumigants on the cuticular surface chemical secretion of three major stored product beetle pests. *M.Sc. Thesis, Botany, Bharathidasan University, Trichy, Tamil Nadu.*
- Mathews, A. S. 2020. Investigation of structure-activity relationship of selected phytochemicals against *Callosobruchus maculatus* Fab. *B.Tech. Thesis, Biotechnology, Vellore Institute of Technology, Vellore, Tamil Nadu.*
- Harshini, A. V. S. G. 2020. Investigation of quinone secretion variations in flour beetle at different stress exposures. *M.Sc. Thesis, Biotechnology, GITAM Institute of Science, Visakhapatnam, Andhra Pradesh.*
- Nehaa, K. 2019. Optimization of biofumigation process for the control of stored product insect pests. *B.Tech. Thesis, Biotechnology, Rajalakshmi Engineering College, Chennai, Tamil Nadu.*
- Srimathi, J. 2019. Generation of plant volatiles and evaluation of toxicity against stored product insect pests. *B.Tech. Thesis, Biotechnology, Rajalakshmi Engineering College, Chennai, Tamil Nadu.*
- Swathi, R. 2019. Fumigation effect of selected phytochemicals and cuticular surface chemical profile analysis in stored product insect pests. *B.Tech. Thesis, Biotechnology, Jeppiaar Engineering College, Chennai, Tamil Nadu.*
- Das, A. 2018. Determination of topical sedimentation and uptake of phytochemicals through cuticular surface in fumigated stored product insect pests. *M.Sc. Thesis, Biotechnology, Siksha 'O' Anusandhan University, Bhubaneswar, Odisha.*
- Dayi, A. S. 2018. Phytochemical residue determination and development of residue removal process from fumigated grains. *M.Sc. Thesis, Food Technology and Quality Assurance, St. Mary's College for Women, Paliakara, Kerala.*
- Prince, A. 2018. Investigating the bio-fumigant properties of garlic and ginger essential oils for stored product insect control. *M.Sc. Thesis, Food Technology and Quality Assurance, St. Mary's College for Women, Paliakara, Kerala.*
- Srivastav, S. 2016. Responses of rice weevil (*Sitophilus oryzae*) to volatiles of grains and essential oils. *M.Tech. Thesis, Food Technology, Gautam Budha University, Lucknow, Uttar Pradesh.*

EDITOR IN JOURNALS

- Academic Editor - PLOS ONE Journal (2024 – till date)
- Editorial Board Member – Discover Agriculture, Springer (2024 – till date)

REVIEWER IN JOURNALS

- Processes, *MDPI* (2024 - 2025)
- Agronomy, *MDPI* (2025)
- Scientific Reports, *Nature* (2024)
- Food and Bioprocess Technology, *Springer* (2024)
- Journal of Stored Product Research, *Elsevier* (2024)
- Chemical and Biological Technologies in Agriculture, *Springer* (2024)
- Journal of Nanotechnology, *Wiley* (2024)
- Journal of Food Science and Technology, *Springer* (2024)
- Biology, *MDPI* (2024)
- Journal of Invertebrate Pathology, *Elsevier* (2024)
- Forests, *MDPI* (2024)
- PLOS ONE Journal (2021 - 2024)
- Pest Management Science, *Elsevier* (2021 & 2024)
- Agriculture, *MDPI* (2024)
- Journal of Environmental Biology (2023 - 2024)
- Psyche: A Journal of Entomology, *Hindawi* (2020, 2022 - 2024)
- Sustainable Food Technology, *Royal Society of Chemistry* (2023)
- Discover Environment, *Springer* (2023)
- Natural Product Research, *Taylor & Francis* (2023)
- Journal of King Saud University – Science, *Elsevier* (2023)
- Indoor and Built Environment, *SAGE* (2023)
- Current Science (2021 - 2023)
- International Journal of Food Science, *Hindawi* (2021 & 2023)
- Indian Food Industry Magazine (2022)
- Journal of Food Processing and Preservation, *Hindawi* (2022)
- Journal of Food Process Engineering, *Wiley-Blackwell* (2022)
- Journal of Environmental Biology (2022)
- International Journal of Agricultural Science and Food Technology (2022)
- Journal of Environmental Biotechnology (2021)
- Journal of Asia-Pacific Entomology, *Elsevier* (2020)
- Proceedings of the Zoological Society, *Springer* (2020)
- International Journal of Tropical Insect Science, *Springer* (2019 - 2021)
- Food Hydrocolloids, *Elsevier* (2019)
- Journal of Herbal Medicine, *Elsevier* (2019)
- Ethnobotany Research & Applications, *Georgia* (2019)
- Environmental Sustainability, *Springer* (2018)
- European Journal of Integrative Medicine, *Elsevier* (2017)
- Journal of Food: Microbiology, Safety & Hygiene (2016 - 2017)
- International Journal of Insect Sciences, *Libertas Academica* (2015 - 2017)
- Entomology, Ornithology & Herpetology: Current Research Journal (2015 - 2017)

SCIENTIFIC/OUTREACH ACTIVITIES CITED IN SOCIAL MEDIA

| | | |
|--|---------------------------|----------------------------|
| Biofumigation Technology | The Hindu | 9 th Dec. 2023 |
| Herbal disinfectant and sanitizer products | FoodPro Newsletter | April 2021 |
| Fumigation services during COVID-19 lockdown | FoodPro Newsletter | June 2020 |
| New products display at the exhibition | Star of Mysore | 16 th June 2019 |
| Biopesticides | Deccan Chronicle | 16 th May 2008 |
| Kadavulin Thoodhuvargal | Kalki magazine | 08 th June 2008 |
| Yearkai Poochikolli Ponneem | Naveena Velanmai magazine | Sep 2008 |

PROFESSIONAL CONTRIBUTIONS

| | | |
|--------------------------------|--|------------------|
| Chief Guest | National Seminar on RELS-2024, K.M.G. College of Arts and Sciences, Gudiyattam. | 2024 Feb. |
| Member, CSIR Exhibitor | World Food India, Ministry of Food Processing Industries (MoFPI), Pragati Maidan, New Delhi | 2023 Nov. |
| Examiner | Ph.D. Thesis Evaluation, Mother Teresa Women's University (1 Ph.D. thesis evaluated) | 2023 Aug. |
| Chairperson | International Conference ICFBN-2023, Karpagam Academy of Higher Education, Deemed to be University, Coimbatore, TN | 2023 Mar. |
| Guest of Honour | Organic Farming Technology & Development, FDP-STP Programme, UGC-HRDC & Mahakaushal University | 2022 Mar. |
| Paper Setter / Examiner | University of Calicut, Kerala | 2022 Feb. |
| Member | Board of Studies (BoS), Food Technology, Karpagam Academy of Higher Education, Deemed to be University, Coimbatore, TN | 2022 – till date |

| | | |
|------------------------------------|--|-------------|
| Paper Setter / Examiner | Kerala Agricultural University, Kerala | 2021 Oct. |
| Chief Guest | 2 nd International Conference MBEM-2021, Vivekanandha College of Arts and Sciences for Women, Tiruchengode. | 2021 Mar. |
| Member | Bureau of Indian Standards (BIS) - Pesticide Residue Analysis Sectional Committee – FAD 27 | 2021 – 2023 |
| Chief Guest | National Conference ESHPA-2020, M.S.S. Wakf Board College, Madurai. | 2020 Mar. |
| Reviewer – Project Report | Gandhian Young Technological Innovation (GYTI) Awards, SRISTI, Ahmedabad, Gujarat. | 2020 Feb. |
| Chief Guest | National Seminar RDAS-2019, ACAS College, Thiruchendur. | 2019 Aug. |
| Reviewer – Project Proposal | NECBH-DBT, IIT Guwahati, Assam. | 2019 Feb. |
| Examiner | Ph.D. Thesis Evaluation, Bharathidasan University (12 Ph.D. thesis evaluated) | 2019 - 2022 |
| Examiner | Ph.D. Thesis Evaluation, Manonmaniam Sundaranar University (1 Ph.D. thesis evaluated) | 2017 Oct. |
| Paper Setter / Examiner | B.Tech. Food Engineering, Kerala Agricultural University, Kerala | 2017 Nov. |
| Chairperson | International Conference ICCB-2016, S.B.K. College, Aruppukottai | 2016 Sep. |
| Advisory Committee Member | National Conference IPRBB-2015, A.V.V.M. Sri Pushpam College, Thanjavur | 2015 Sep. |

ADMINISTRATIVE RESPONSIBILITIES / ACTIVITIES @ CFTRI

| | | |
|-------------------------|--|------------------|
| Member | Special Campaign 4.0 Team for improving Swachhata and Disposal of Pending References | 2024 Oct. |
| Member | 75 Years Journey of CFTRI Main Highlights | 2024 – till date |
| Coordinator | Committee - Venue & Hall Arrangement, National Quiz Contest on Food Security Mission | 2023 Oct. |
| Paper Setter | Committee - Question Paper Setting for Regional Level Contest on Food Security Mission | 2023 July |
| Member | Organizing Committee - Panel Discussion on Supplementary Foods for Women & Child Development -OWOL event | 2023 July |
| Member | Organizing Committee - CSIR-CFTRI Licensee Meet Academia-Industry Interactions - OWOL event | 2023 July |
| Member | Committee - Question Paper Setting for M.Sc. Food Technology | 2023 & 2024 |
| Resource Person | Orientation Programme for the Ph.D. Research Scholars | 2023 Jan. & Aug. |
| Co-Coordinator | M.Sc. Food Tech. (FSS) | 2022 – till date |
| Member | Organizing Committee - Monitoring Committee meet of ATLAS Mission | 2022 Dec. |
| Moderator | GSPM Workshop 2022 | 2022 Aug. |
| Co-Chairman | Technical Session - National Webinar FASST2022 | 2022 May |
| Mentor | AcSIR CSIR800 Programme | 2022 Mar. |
| Expert Member | Panel Discussion - Workshop on 3Ps of Food Industry: Processing, Preservation & Packaging | 2022 Mar. |
| Member | Organizing Committee – Azadi Ka Amrit Mahotsav Webinar IAFPGS | 2022 Jan. |
| Internal Auditor | ISO Standard: Environmental Management System & Quality Management System | 2021 – till date |
| Member | Project Review Committee – Biomolecules & Biotechnology | 2021 – till date |

| | | |
|-----------------------|---|------------------|
| Member | Library Committee | 2021 – till date |
| Member | Evaluation Committee – Probation Period of CFTRI School Teachers and Staffs | 2021 – till date |
| Co-Coordinator | M.Sc. Food Tech. (TIC-C) | 2021 – till date |
| Member | CSIR JIGYASA Scientist-Student Contact Program | 2021 Nov. |
| Chairman | Financial Committee - International Conference ET- FPIC 2021, 24th & 25th Feb. 2021. | 2021 Feb. |
| Member | Scientist Selection Committee | 2020 Sep. |
| Member | Organizing Committee – ICP Virtual Colloquium VAIBHAV Summit: Horizontal – Food Safety & | 2020 Dec. |
| Rapporteur | Nutritional Security, Sub-Horizontal - Storage & Handling Strategy | 2020 Oct. |
| Secretary | Pesticide Science Study Group | 2020 – till date |
| Member | Project Fellow Selection Committee | 2019 – till date |
| Member | Doctoral Advisory Committee | 2019 – till date |
| Member | Swachada Pakhwada | 2018 May |
| Member | Exhibition - Adanya Chetana Seva Utsav | 2017 Dec. |
| Member | Project Work Evaluation Committee - PG Nutri. Bio. | 2017 Jun. |
| Member | QMS & EMS Documentation Committee | 2017 – till date |
| Member | Physical Verification Committee | 2017 – till date |
| Convener | Departmental Seminar Programme | 2015 – 2016 |

MEMBERSHIP IN ACADEMIC SOCIETIES

| | | |
|--------------------|--|------------------|
| Member | Indian Grain Storage Working Group (IGSWG) | 2024 – till date |
| Life Member | Entomological Society of India (ESI) | 2023 – till date |
| Life Member | National Environmental Science Academy (NESA) | 2022 – till date |
| Life Member | Association of Food Scientists & Technologists (AFSTI) | 2021 – till date |
| Life Member | Applied Zoologists Research Association (AZRA) | 2021 – till date |
| Life Member | National Academy of Biological Sciences (NABS) | 2017 – till date |
| Life Member | The Indian Science Congress Association (ISCA) | 2012 – till date |

ACKNOWLEDGEMENTS



☆ Thank You ☆