



## DR. S. EZIL VENDAN

Scientist E & AcSIR Faculty,  
Food Protectants & Infestation Control Dept.,  
CSIR-Central Food Technological Research Institute,  
Mysore – 570 020, Karnataka, India  
☎: +91 821 2513210, Ext. 2265 / Mobile: 9591714567  
✉: ezilvendan@cftri.res.in / geneezil@yahoo.co.in  
🌐: [https://cftri.res.in/faculty\\_detail/2371](https://cftri.res.in/faculty_detail/2371)

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

### RESEARCH EXPERIENCE

|                  |                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 2025 – till date | <b>Scientist E</b> , Food Protectants & Infestation Control Dept., CSIR-Central Food Technological Research Institute, Mysore, India. |
| 2021 – 2025      | <b>Scientist D</b> , Food Protectants & Infestation Control Dept., CSIR-Central Food Technological Research Institute, Mysore, India. |
| 2017 – 2021      | <b>Scientist C</b> , Food Protectants & Infestation Control Dept., CSIR-Central Food Technological Research Institute, Mysore, India. |

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

## TEACHING EXPERIENCE

|                  |               |                     |                     |
|------------------|---------------|---------------------|---------------------|
| 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

|      |                                                                   |                                                                                            |
|------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 2026 | <b>Editor of Distinction Award</b>                                | Scientific Reports, Springer Nature.                                                       |
| 2025 | <b>Senior Scientist Award</b>                                     | Indian Academy of Biopesticides (InABP), Kanyakumari, Tamil Nadu.                          |
| 2024 | <b>AZRA Scientist Award</b>                                       | Applied Zoologists Research Association (AZRA), Bhubaneswar, Odisha.                       |
| 2023 | <b>Fellow of Entomological Society of India</b>                   | Entomological Society of India (ESI), ICAR-IARI, New Delhi.                                |
| 2022 | <b>Green Technology Innovative Award</b>                          | National Environmental Science Academy (NESA), New Delhi.                                  |
| 2022 | <b>Fellow of Royal Entomological Society</b>                      | Royal Entomological Society (RES), St. Albans, Hertfordshire, AL2 3NS, United Kingdom.     |
| 2021 | <b>Innovative Design Thinking Award</b>                           | Karpagam Academy of Higher Education, Deemed to be University, Coimbatore, Tamil Nadu.     |
| 2019 | <b>Gold Medal &amp; Young Scientist Award</b>                     | Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh.                  |
| 2018 | <b>Jagar Nath Raina Memorial All India Best Publication Award</b> | Sadhna, Dr. Y. S. Parmar University of Horticulture and Forestry, Solan, Himachal Pradesh. |

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|------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 2018 | <b>Best Poster Award</b>                                      | 8 <sup>th</sup> International Food Convention from Association of Food Scientists and Technologists, CSIR-CFTRI, Mysore, Karnataka. |
| 2017 | <b>Har Gobind Khorana Memorial Best Young Scientist Award</b> | Bose Science Society, Tamil Nadu Scientific Research Organization (TNSRO), Thiruchirapalli, Tamil Nadu.                             |
| 2015 | <b>International Travel Fellowship</b>                        | Centre for International Co-operation in Science (CICS), Chennai, Tamil Nadu.                                                       |
| 2012 | <b>Reward of Honour</b>                                       | Institute for Educational Research & Innovative Action (IERIA), Bhopal, Madhya Pradesh.                                             |
| 2006 | <b>JRF Fellowship</b>                                         | UGC, Ministry of HRD, Govt. of India, New Delhi.                                                                                    |
| 2003 | <b>GATE JRF Qualified</b>                                     | IIT, Ministry of HRD, Govt. of India, New Delhi.                                                                                    |
| 2003 | <b>CSIR-UGC JRF/NET Qualified</b>                             | CSIR-UGC, Ministry of HRD, Govt. of India, New Delhi.                                                                               |

#### KEYNOTE ADDRESS, INVITED & GUEST LECTURES

- **Green pesticides for grain storage managment: Current scenario and future prospects,** *7<sup>th</sup> Biopesticides International Conference*, Indian Academy of Biopesticides, Kanyakumari, 27<sup>th</sup> September 2025.
- **Biorational approcahes for eco-friendly managment of stored-product insect pests,** *National Conference on Emerging Trends and Innovations in Biosciences*, J.J. College of Arts and Science, Pudukkottai, 22<sup>nd</sup> August 2025.
- **Fumigants for stored-product insect pest managment: Challenges and future perspectives,** *International Conference on Agroecology and Pest Management: Balancing Environment and Human Health*, Lalit Narayan Mithila University, Darbhanga, Bihar, 18<sup>th</sup> - 19<sup>th</sup> July 2025.
- **Modern technologies for food protection: Disinfestation of insects in stored food grains,** *National Conference on Biotechnological Innovations for Sustainable Development*, Thiagarajar College, Madurai, 09<sup>th</sup> Jan. 2025.
- **Scope and oppurtunities in life sciences research,** *National Seminar on Research and Its Employability in Life Sciences*, K.M.G. College of Arts and Sciences, Gudiyattam. 09<sup>th</sup> Feb. 2024.
- **Fumigation and modern technologies for safe strage of food grains,** *Nationl Seminar on Thrive for Safe Food: New and Novel Technologies*, D.D.G.D. Vaishnav College, Chennai, 06<sup>th</sup> Oct. 2023.
- **Warehouse designing and infestation control,** *17<sup>th</sup> Training Course on Advance Supply Chain Managment and Food Technology*, Defence Food Research Laboraory (DFRL), Mysore, 19<sup>th</sup> July 2023.

- **Bio-fumigants from edible plant sources for the protection of stored food grains: current status and future prospects**, *2<sup>nd</sup> International Conference on Food, Bio and Nano Materials*, Karpagam Academy of Higher Education (Deemed to be University), Coimbatore, 18<sup>th</sup> March 2023.
- **Prevention and management of household pests**, *Refresher Course for Cooks of JNVs of Karnataka, Kerala and Andhra Region*, Jawahar Navodaya Vidyalaya, Mysore, 16<sup>th</sup> January 2023.
- **Fumigation and infestation control for safe storage of spices**, *Hybrid Workshop on Entrepreneurship Development in Spice Processing*, CSIR-CFTRI, Mysore, 20<sup>th</sup> September 2022.
- **Prospects of phytochemicals for stored grain and seed protection**, *Stakeholders Workshop on Grain Storage and Pest Management*, CSIR-CFTRI, Mysore, 17<sup>th</sup> - 18<sup>th</sup> August 2022.
- **Biofumigants from plant volatiles**, *7<sup>th</sup> Meeting of Indian Grain Storage Working Group*, Indian Council of Agricultural Research (ICAR), New Delhi, 20<sup>th</sup> 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, 30<sup>th</sup> 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, 28<sup>th</sup> 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, 23<sup>rd</sup> 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, 25<sup>th</sup> 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, 18<sup>th</sup> 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, 17<sup>th</sup> Apr. 2021.
- **Impact of chemical pesticides in environment and status of eco-friendly pesticides use**, *2<sup>nd</sup> Virtual International Conference on Modern Biology and Environmental Management*, Vivekanandha College of Arts and Sciences for Women, Tiruchengode, 29<sup>th</sup> 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, 29<sup>th</sup> 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, 02<sup>nd</sup> Mar. 2020.
- **Insect-plant interactions and infestation tactics of insect pests**, *National Seminar on Recent Trends in Zoology*, S.B.K. College, Aruppukottai, 28<sup>th</sup> 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, 31<sup>st</sup> Jan. 2020.
- **Agrobiodiversity and its conservation measures**, *National Level Awareness Programme on Biodiversity and Biodiversity Act*, Arulmigu Palaniandavar Arts College, Palani, 25<sup>th</sup> 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, 22<sup>nd</sup> Aug. 2019.
- **Stored food protection and observation of insect pests under foldscope microscope**, *National Workshop on Foldscope & its Research Utilities*, Anandaram Dhekial Phookan College, Nagaon, Assam, 19<sup>th</sup> 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, 29<sup>th</sup> 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 20<sup>th</sup> & 21<sup>st</sup> May 2019.
- **Foldscope microscopy and applications**, *Foldscope Workshop Programme*, GPWC, Imphal, Manipur, 22<sup>nd</sup> 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, 18<sup>th</sup> 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, 16<sup>th</sup> Dec. 2017.
- **Pesticides for food protection: current status and future prospectives in india**, *International Conference on Food Microbiology & Food Safety*, D.D.G.D. Vaishnav College, Chennai, 11<sup>th</sup> 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, 16<sup>th</sup> 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, 22<sup>nd</sup> Apr. 2012.
- **Environmental carcinogens and cancer risks**, Department of Zoology and Biotechnology, The Madura College, Madurai, 03<sup>rd</sup> Aug. 2011.
- **Phytochemicals in insect pest management**, P.G. and Research Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi, 06<sup>th</sup> 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)

|                   |                           |                                                                                                                                                                                                                     |                                    |                        |                |              |   |
|-------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------|----------------|--------------|---|
| 2026<br>-<br>2028 | Principal<br>Investigator | Scaling up the multi-fume technology integrated with a sequential fumigation process and eco-friendly fumigants for safe storage of food commodities against insect pest infestations                               | CSIR                               | FTT<br>Theme<br>CLP    | FTT30602       | ₹152.80 Lakh |   |
| 2026<br>-<br>2027 | Team<br>Member            | Sustainable food processing for nutritional wellness, safety and food security: Development and validation of next-generation greener fumigants and fumigant formulations for protection of stored food commodities | CSIR                               | ULIP<br>Scheme         | MLP2608        | ₹19.00 Lakh  |   |
| 2026<br>-<br>2026 | Co-<br>Investigator       | Assessment of Gumtree sticky trap solutions as a tool in integrated pest management for food security                                                                                                               | Gumtree traps private Ltd.,<br>Goa | Consultancy            | CNP578         |              | - |
| 2024<br>-<br>2026 | Principal<br>Investigator | Design and development of grain storage system with pushing force mechanism for the prevention of insect infestation in stored food products                                                                        | CFTRI                              | In-<br>House           | MLP320-<br>WP7 |              | - |
| 2024<br>-<br>2026 | Co-<br>Investigator       | Exploring silica loaded biopolymers for insect-resistant packaging                                                                                                                                                  | CFTRI                              | RDSF<br>Scheme         | CSP24005       | ₹12.00 Lakh  |   |
| 2024<br>-<br>2026 | Co-<br>Investigator       | Development of essential oil based prophylactic agents for prevention of stored grain insect pests                                                                                                                  | CSIR                               | CSIR-<br>FTT<br>Scheme | FTT20506       | ₹15.00 Lakh  |   |
| 2024              | Team                      | Development of multi-optional                                                                                                                                                                                       | CFTRI                              | In-                    | MLP317-        |              | - |

|                   |                        |                                                                                                                               |         |                       |             |             |   |
|-------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------|-------------|-------------|---|
| -<br>2025         | Member                 | sustainable sterilization processes for spices as an alternative to ethylene oxide and their risk assessment                  |         | House                 | WP2         |             |   |
| 2023<br>-<br>2025 | Co-Investigator        | Shelf life enhancement of millets through non-hermetic, hermetic and advanced methods of storage system                       | CSIR    | Millet Mission        | HCP52       | ₹34.68 Lakh |   |
| 2023<br>-<br>2024 | Team Member            | Development of export protocol for fresh okra, <i>Abelmoschus esculentus</i>                                                  | CFTRI   | In-House              | MLP307      |             | - |
| 2022<br>-<br>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<br>-<br>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<br>-<br>2022 | Team Member            | An integrated program for value addition to the superfood – Chia ( <i>Salvia hispanica</i> )                                  | CFTRI   | In-House              | MLP296      |             | - |
| 2021<br>-<br>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<br>-<br>2024 | Principal Investigator | Scaling up the bio-fumigation technology for protection of stored food commodities from insect pests                          | CSIR    | CSIR-ATLAS Mission    | HCP31-WP1.4 | ₹70.02 Lakh |   |
| 2020<br>-<br>2024 | Team Member            | Development of a novel effective bioformulation against stored grain and vegetable pest                                       | CSIR    | Flori-culture Mission | HCP37       |             | - |
| 2019<br>-         | Principal Investigator | Development of aromatic bio-fumigation process with air                                                                       | CFTRI   | In-House              | MLP252      |             | - |

|             |                        |                                                                                                                             |       |                  |        |             |   |
|-------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------|------------------|--------|-------------|---|
| 2020        |                        | pressure for safe storage of post-harvest pulses and grains in storage bags                                                 |       |                  |        |             |   |
| 2019 - 2020 | Team Member            | Design and development of fruits and vegetable washer                                                                       | CFTRI | In-House         | MLP222 |             | - |
| 2018 - 2020 | Principal Investigator | Development of bio-fumigation system for safe storage of food commodities against stored product insect pests               | MoFPI | R & D Scheme     | GAP533 | ₹16.46 Lakh |   |
| 2018 - 2019 | Principal Investigator | Can visual sensation super impose olfactory sensation in the oviposition behavior of pulse beetle and rice weevil?          | DBT   | Foldscope 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

- 2025 **ISO/IEC 17025:2017 assessors training course** conducted by NABL at CSIR-CFTRI, Mysore.
- 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, 06<sup>th</sup> July 2023.
- Industry Meet, **Bio-Fumigation Technology for Safe Storage of Food Grains, Programme Coordinator**, CSIR-CFTRI, Mysore, Karnataka, CSIR (ATLAS Mission) sponsored, 21<sup>st</sup> March 2023.
- Workshop Programme, **NER Twinning Programme cum Foldscope Seminar & Training, Organizing Secretary**, CSIR-CFTRI, Mysore, Karnataka, DBT sponsored, 19<sup>th</sup> Feb. 2019.
- Outreach Programme, **Observation of Stored Product Insect Pests under Foldscope, Programme Coordinator**, Soorahalli, Karnataka, DBT sponsored, 29<sup>th</sup> 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, 19<sup>th</sup> to 25<sup>th</sup> 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 – 1405; i10-index – 24; h-index - 18]

1. Sreelakshmi, V. P., **Vendan, S. E.** and P. S. Negi. 2026. Emerging technologies to reduce microbial load and pesticide residues in grapes. *Chemical Engineering and Processing* -

*Process Intensification*. 228: 110965. (<https://doi.org/10.1016/j.cep.2026.110965>) (IF – 4.560)

2. Varghese, J. A., **Vendan, S. E.**, Rajashekar, Y. and S. S. Mamatha. 2026. Sustainable insect pest management using bioactive compounds derived from marine macroalgae: A comprehensive review. *Bioresource Technology*. 455: 134672. (<https://doi.org/10.1016/j.biortech.2026.134672>) (IF – 8.20)
3. Sreekrishnakumar, A. K., Ramachandra, A. B., Parthiban, P., Perumal, M. K. and **S. E. Vendan**. 2025. Biorational food protectants: Prediction of effective biofumigant against *Callosobruchus maculatus* adults with a comparison of residue persistence on beetle body surface. *Food Bioscience*. 74: 108022. (<https://doi.org/10.1016/j.fbio.2025.108022>) (IF – 6.910)
4. Sreekrishnakumar, A. K., Anand, A., Natesh, J., Meeran, S. M. and **S. E. Vendan**. 2025. Diallyl disulfide as potential fumigant: Prediction of target site and deciphering ovicidal action in *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae) egg. *Environmental Science and Pollution Research*. 32: 25885 – 25900. (<https://doi.org/10.1007/s11356-025-37074-z>) (IF – 5.030)
5. Ibrahim, S. S., Aswathi, K. S., Anand, A. and **S. E. Vendan**. 2025. PEGylation as a tool to improve the stability of garlic sulfides as nano-protectants from stored-product beetles infestation. *Journal of the Saudi Society of Agricultural Sciences*. 24:23 (<https://doi.org/10.1007/s44447-025-00030-x>) (IF – 5.250)
6. Kanakhara, M., Arunkumar, P., Parthiban, P. and **S. E. Vendan**. 2025. Enhancing food safety and security through silicon-based approaches in pre-harvest and post-harvest pest management. *Pest Management Science*. 81: 4962 – 4972. (<https://doi.org/10.1002/ps.8876>) (IF - 4.850)
7. Lokesh, M., Amal, A., Sreekrishnakumar, A. K., and **S. E. Vendan**. 2025. Morphological characteristics of the antenna and its sensilla of three stored-product beetle species. *The Journal of Basic and Applied Zoology*. 86:36 (<https://doi.org/10.1186/s41936-025-00456-3>) (IF - 1.70)
8. Parthiban, P., Soren, B., Geetha, T., Babu, C. S. V. and **S. E. Vendan**. 2025. Effects of silica on stored product pest, *Sitophilus oryzae* L. (Coleoptera: Curculionidae) and its residual impact on *Triticum aestivum* L. grain. *Journal of Stored Product Research*. 112: 102664. (<https://doi.org/10.1016/j.jspr.2025.102664>) (IF – 3.40)
9. 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*. 40(11): 3086 – 3095. (<https://doi.org/10.1080/14786419.2025.2451220>) (IF – 2.465)

10. 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. (<https://doi.org/10.1016/j.postharvbio.2024.113322>) (IF – 7.30)
11. 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*. 63(2): 274 – 283. (<https://doi.org/10.1007/s13197-024-06181-z>) (IF – 3.508)
12. 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. (<https://doi.org/10.18311/jbc/2024/44278>) (IF – 0.316)
13. 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. (<https://doi.org/10.5958/0974-4576.2024.00075.8>) (IF – 0.248)
14. Lokesh, M., Aswathi, K. S., Sahu, U. and **S. E. Vendan**. 2024. Influence of molecular descriptors of plant volatilomics on fumigant action against the three major stored-product beetle pests. *Environmental Science and Pollution Research*. 31: 35455-35469. (<https://doi.org/10.1007/s11356-024-33483-8>) (IF – 5.030)
15. 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 – 7.30)
16. 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 – 8.70)
17. 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. (<https://doi.org/10.1080/14786419.2023.2200945>) (IF – 2.465)
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20. 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**)
21. Madhurya, L., Sahu, U., **Vendan, S. E.**, Devi, S. S. and C. S. V. Babu. 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 – 1.0**)
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25. 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**)
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## BOOK CHAPTERS & PROCEEDINGS

1. Raveendran, A., **Vendan, S. E.**, Babu, C. S. V. and S. A. Singh. 2025. Mitigation of contaminants in foods: Pesticide residues, heavy metals, mycotoxins in various food commodities and strategies for their mitigation to ensure food safety. In *Food Toxicity and Safety*, D. Mondal and M. M. Rahman (Eds), Springer Nature Publishers, pp 3-36. (ISBN: 978-9819641277)
2. 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

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3. 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 11<sup>th</sup> 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)
4. **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)
5. **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)
6. **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)
7. **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)
8. 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)
9. Duraipandiyan, 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)
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12. Ramar, M., Duraipandiyar, 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 / BOOKS

1. Negi, P. S., Debnath, S., Kapoor, M., Thimmaiah, G. R., Patil, N., **Vendan, S. E.\***, Joshi, S., Kudre, T., Chaudhri, S. R., Gopinath, M., Sarma, M. V. R. K., Kumar, M. P., Reddy, J. P., Kusuma, K., Somashekar, K. S. and P. Tejas. 2026. 75 Years of R&D at CSIR-CFTRI. *Published by The Director, CSIR-CFTRI, Mysore.*
2. 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.

\*Co-Editor, #Corresponding author

## PATENTS

1. **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)
2. **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. Biofumigation technology for stored pulse protection (CFTRI PDRU No. CMF 3760; 2025)\*
2. Ready mixes: Dosa (CFTRI PDRU No. CCF 1303; 2025)#
3. Herbal bulk sanitizer product (CFTRI PDRU No. CMF 3680; 2021)\*
4. Herbal fogging disinfectants for mist sanitizer system (CFTRI PDRU No. CMF 3660; 2021)#

5. Herbal potable spray sanitizer (CFTRI PDRU No. CMF 3670; 2021)<sup>#</sup>
6. Herbal hand sanitizer - Gel form (CFTRI PDRU No. CMF 3640; 2021)<sup>#</sup>
7. Herbal hand sanitizer - Liquid form (CFTRI PDRU No. CMF 3650; 2021)<sup>#</sup>

*\*Principal Inventor, <sup>#</sup>Co-Inventor*

## RESEARCH PAPER PRESENTATIONS

- 2025 19<sup>th</sup> AZRA International Conference on Environmental Shift Impact on Animal Biota, Food, Feed and Nutritional Security and Human Health, Siksha-O-Anusandhan, Bhubaneswar, Odisha. *(Oral Presentation)*
- 2022 International Conference on Natural Science and Green Technologies for Sustainable Development, Goa University, Goa. *(Oral Presentation)*
- 2019 National Conference on Advances in Microscopy and Foldscope, Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Uttar Pradesh. *(Oral Presentation)*
- 2017 6<sup>th</sup> National Conference on Natural Science, Holy Cross College, Trichy, Tamil Nadu. *(Oral Presentation)*
- 2016 Institute Seminar Programme, CSIR-Central Food Technological Research Institute, Mysore, Karnataka. *(Oral Presentation)*
- 2016 International Conference on Climate Change and its Implications on Crop Production and Food Security, BHU, Varanasi, Uttar Pradesh. *(Oral Presentation)*
- 2015 4<sup>th</sup> 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. *(Poster Presentation)*
- 2012 National Conference on Climate Change, Biodiversity and Conservation, St. Andrew College, Gorakhpur, Uttar Pradesh. *(Oral Presentation)*
- 2012 National Seminar on Frontiers in Environmental Pollutants, Health and Applied Genetics, Mahavir Cancer Sansthan, Bihar. *(Oral Presentation)*
- 2011 AACR International Conference on New Horizons in Cancer Research: Biology to Prevention to Therapy Conference, Delhi. *(Poster Presentation)*
- 2011 4<sup>th</sup> Bihar Science Conference 2011, L.S. College, Muzaffarpur, Bihar. *(Poster Presentation)*
- 2009 5<sup>th</sup> 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, Tamil Nadu. *(Oral Presentation)*
- 2009 National Symposium on Non-chemical Insect Pest Management, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu. *(Oral Presentation)*
- 2009 Seminar on Recent Trends in Biological Sciences, Post-Graduate and Research Pachaiyappa's College, Chennai, Tamil Nadu. *(Oral Presentation)*

- 2008 National Symposium on Ecofriendly Insect Pest Management, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu. (*Oral Presentation*)
- 2007 National Symposium on Recent Trends in Insect Pest Management, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu. (*Oral Presentation*)
- 2006 National Seminar on Wildlife Biodiversity Conservation, School of Life Sciences, Pondicherry University, Pondicherry. (*Oral Presentation*)
- 2006 National Conference on Biodiversity, Dept. of Advanced Zoology and Biotechnology, Loyola College, Chennai, Tamil Nadu. (*Oral Presentation*)
- 2003 Science Day and Aqua-Terr Annual Symposium, School of Biological Sciences, Madurai Kamaraj University, Madurai, Tamil Nadu. (*Poster Presentation*)

#### **RESEARCH GUIDANCE - PG / DOCTORAL / POST DOCTORAL (Ongoing/Completed)**

|                                 |                                         |                           |                  |
|---------------------------------|-----------------------------------------|---------------------------|------------------|
| Ms. Niveddhitha V S             | UG Research Scholar                     | Internship Program        | 2026 – till date |
| Ms. Madhubala S                 | PG Research Scholar                     | Internship Program        | 2026 – till date |
| Dr. Aswathi K S <sup>1@</sup>   | Ph.D. Research Scholar (JRF & SRF-UGC)  | AcSIR Ph.D. Program       | 2020 – 2025      |
| Dr. Gawali P P <sup>2</sup>     | Ph.D. Research Scholar (JRF & SRF-CSIR) | AcSIR Ph.D. Program       | 2020 – 2025      |
| Dr. Madhurya L <sup>1\$</sup>   | Ph.D. Research Scholar (JRF & SRF-UGC)  | Mysore Univ. Program      | 2020 – 2024      |
| Dr. Mohamed S S I <sup>3#</sup> | Post-Doctoral Fellow (TWAS-CSIR)        | International PDF Program | 2020 – 2021      |
| Dr. Sahu U <sup>1*</sup>        | Ph.D. Research Scholar (JRF & SRF-CSIR) | AcSIR Ph.D. Program       | 2018 – 2023      |

<sup>1</sup>Guide, <sup>2</sup>Co-Guide, <sup>3</sup>Mentor

\*Received Young Researcher Award – NESA 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

## RESEARCH GUIDANCE - PROJECT FELLOWS / TRAINEE (Completed)

|                                           |                                                  |                                                |
|-------------------------------------------|--------------------------------------------------|------------------------------------------------|
| Mrs. Theertha D P*<br>(JRF, GAP-527)      | Mrs. George L<br>(SRF, GAP-533)                  | Dr. Sowndhararajan K<br>(Trainee, SRTP-2020)   |
| Dr. Swamy A L V<br>(Trainee, SRTP-2020)   | Mr. Selvan V T T<br>(Trainee, SRTP-2020)         | Ms. Noore S<br>(PA, MLP222)                    |
| Ms. Mathews A S\$<br>(PG Research)        | Ms. Tripathy S<br>(PA, GAP-615)                  | Mr. Anand A<br>(PA, HCP-37)                    |
| Ms. Tanushree S<br>(PA, HCP-37)           | Ms. Devi M#<br>(PG Research)                     | Mr. Nazeer Ma<br>(PA, HCP-31)                  |
| Ms. Yazhini V S<br>(PA, MLP-300)          | Mr. Macarius N M N <sup>b</sup><br>(PA, MLP-300) | Mr. Viji K<br>(SA, HCP-31)                     |
| Ms. Sreelakshmi<br>(PA, GAP-615)          | Mrs. Venkatama S<br>(SA, HCP-31)                 | Mr. Shivakumar A R@<br>(PG Research)           |
| Dr. Murugesan R<br>(PA, MLP-300)          | Dr. Hospet R<br>(RA, HCP-31)                     | Mr. Rejoy P A P<br>(PA, MLP-300)               |
| Dr. Smruthi M R<br>(RA, HCP-31)           | Ms. Chithra R<br>(PA, HCP-31)                    | Mr. Manikannan S <sup>c</sup><br>(PG Research) |
| Mr. Ragul A <sup>d</sup><br>(PG Research) | Dr. Samraj J M<br>(PAT Trainee, ICAR-NISST)      |                                                |

<sup>c</sup>Received 1<sup>st</sup> Prize for Poster Presentation (ICFTCS 2025)

<sup>d</sup>Received 3<sup>rd</sup> Prize for Poster Presentation (ICFTCS 2025)

@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

<sup>a</sup>Qualified GATE fellowship award

<sup>b</sup>Qualified INSPIRE fellowship award

## DOCTORAL RESEARCH GUIDANCE – Ph.D. Degree Awarded

<sup>1</sup>Aswathi, K. S. 2026. Development of potential biofumigation process using phytochemical volatile for the control of *Sitophilus oryzae* and *Callosobruchus maculatus*. *Ph.D. Thesis. Academy of Scientific and Innovative Research (AcSIR), Ghaziabad.*

<sup>1</sup>Madhurya, L. 2025. Insecticidal activity of phytochemical volatiles against insect pests in food grains. *Ph.D. Thesis. University of Mysore, Mysore*

<sup>2</sup>Gawali, P. P. 2025. Development of essential oil based bio-fumigant and its efficacy against major stored-product insect pests. *Ph.D. Thesis. Academy of Scientific and Innovative Research (AcSIR), Ghaziabad.*

<sup>1</sup>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), Ghaziabad.*

<sup>1</sup>Guide, <sup>2</sup>Co-Guide

## **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).*

## **DISSERTATION / SHORT-TERM RESEARCH GUIDANCE - Completed**

Sathishkumar, T. 2026. Odour masking behaviour of spice derived flavours on the garlic essential oil for biofumigation against the pulse beetle pest. *Short-Term Work Report, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu.*

Mahesha, M. N. 2026. Generation of volatile emission from the fresh food substances and evaluation of the fumigation efficacy against the pulse beetle. *M.Sc. Organic Chemistry, University of Mysore, Mysore, Karnataka.*

Chawla P. K. 2026. Biochemical and non-chemical approaches of disinfestation and decontamination of beetles and fungi from stored food grains. *M.Sc. Life Sciences, Bharathidasan University, Trichy, Tamil Nadu.*

Samraj, J. M. 2026. Investigation of fumigant bioactivities against the stored-product insect pests using *in vivo* and *in silico* models. *PAT Project Report, Indian Council of Agricultural Research – National Institute of Seed Science and Technology (ICAR-NISST), Mau, Uttar Pradesh.*

Achar, S. 2026. Insights into the stability of spice derived phytochemicals under ozone, thermal and UV exposures and their fumigant action in red flour beetle. *M.Sc. Organic Chemistry, University of Mysore, Mysore, Karnataka.*

Manikannan, S. 2025. Characterization of benzoquinone secreted of red flour beetle and formulation of nanoemulsion using benzoquinones against grain storage fungi. *M.Sc. Biotechnology, VELS University, Chennai, Tamil Nadu.*

Ragul, A. 2025. Green chemical extraction efficiency: A comparative analysis of physicochemical characteristics of phytochemicals with particle size of green gram flour. *M.Sc. Biotechnology, VELS University, Chennai, Tamil Nadu.*

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

- Guest Editor - Scientific Reports, *Nature* (2026 – till date)
- Editorial Board Member - Archives of Phytopathology and Plant Protection, *Taylor & Francis* (2026 – till date)
- Editorial Board Member - Scientific Reports, *Nature* (2025 – till date)
- Academic Editor - PLOS ONE Journal (2024 – till date)
- Editorial Board Member - Discover Agriculture, *Springer* (2024 – till date)

## REVIEWER IN JOURNALS

- |                                                                                            |                                                                 |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| • Ecotoxicology and Environmental Safety, <i>Elsevier</i> (2025-2026)                      | • Environmental Sustainability, <i>Springer</i> (2018 & 2026)   |
| • Biological Control, <i>Elsevier</i> (2025-2026)                                          | • RSC Advances, <i>Royal Society of Chemistry</i> (2025 - 2026) |
| • Cogent Food and Agriculture, <i>Taylor &amp; Francis</i> (2026)                          | • Journal of Food Science, <i>Wiley</i> (2025)                  |
| • Discover Chemistry, <i>Springer</i> (2026)                                               | • Plasma Processes and Polymers, <i>Wiley</i> (2025)            |
| • Journal of Stored Product Research, <i>Elsevier</i> (2024 - 2026)                        | • Crop Protection, <i>Elsevier</i> (2025)                       |
| • Applied Food Research, <i>Elsevier</i> (2026)                                            | • Journal of Pest Science, <i>Springer</i> (2025)               |
| • Journal of Agriculture and Food Research, <i>Elsevier</i> (2026)                         | • LWT-Food Science and Technology, <i>Elsevier</i> (2025)       |
| • PLOS ONE Journal (2021 - 2026)                                                           | • Food and Humanity, <i>Elsevier</i> (2025)                     |
| • International Journal of Tropical Insect Science, <i>Springer</i> (2019-2021, 2025-2026) | • Journal of Applied Entomology, <i>Wiley</i> (2025)            |
|                                                                                            | • Scientific Reports, <i>Nature</i> (2024 - 2025)               |

- Forests, *MDPI* (2024 - 2025)
- Biomimetics, *MDPI* (2025)
- Entomological News, *BioOne* (2025)
- Chemistry and Biodiversity, *Wiley* (2025)
- Circular Agricultural Systems (2025)
- Biology, *MDPI* (2024-2025)
- Journal of Food Processing and Preservation, *Wiley* (2022 & 2025)
- Metabolites, *MDPI* (2025)
- Journal of Nanotechnology, *Wiley* (2024 - 2025)
- The Journal of Basic and Applied Zoology, *Springer* (2025)
- Processes, *MDPI* (2024 - 2025)
- Agriculture, *MDPI* (2024 - 2025)
- Psyche: A Journal of Entomology, *Wiley* (2020, 2022 - 2025)
- Insects, *MDPI* (2025)
- Agronomy, *MDPI* (2025)
- Journal of Environmental Biology (2023 - 2025)
- Pharmaceuticals, *MDPI* (2025)
- Food and Bioprocess Technology, *Springer* (2024)
- Chemical and Biological Technologies in Agriculture, *Springer* (2024)
- Journal of Food Science and Technology, *Springer* (2024)
- Biology, *MDPI* (2024)
- Journal of Invertebrate Pathology, *Elsevier* (2024)
- Pest Management Science, *Elsevier* (2021 & 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 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)
- Food Hydrocolloids, *Elsevier* (2019)
- Journal of Herbal Medicine, *Elsevier* (2019)
- Ethnobotany Research & Applications, *Georgia* (2019)
- 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<sup>th</sup> 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 <sup>th</sup> June 2019 |
| Biopesticides                                | Deccan Chronicle          | 16 <sup>th</sup> May 2008  |
| Kadavulin Thoodhuvargal                      | Kalki Magazine            | 08 <sup>th</sup> June 2008 |
| Yearkai Poochikolli Ponneem                  | Naveena Velanmai magazine | Sep 2008                   |

## PROFESSIONAL RECOGNITIONS & CONTRIBUTIONS

|                                                   |                                                                                                                        |                  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>External Expert</b>                            | Research Advisory Committee, Thiagarajar College, Madurai.                                                             | 2025 – till date |
| <b>Member</b>                                     | Board of Studies (BoS), Food Technology, Karpagam Academy of Higher Education, Deemed to be University, Coimbatore, TN | 2022 – till date |
| <b>Research Guide in Biotechnology</b>            | University of Mysore, Mysore                                                                                           | 2020 – till date |
| <b>Assistant Professor in Biological Sciences</b> | Academy of Scientific and Innovative Research (AcSIR)                                                                  | 2015 – till date |
| <b>Examiner</b>                                   | Ph.D. Thesis Evaluation, Anna University                                                                               | 2026 March       |
| <b>Examiner</b>                                   | Ph.D. Thesis Evaluation, Bharathidasan University (13 Ph.D. thesis evaluated)                                          | 2019 - 2026      |
| <b>Chief Guest</b>                                | National Seminar on ETIB -2025, J.J. College of Arts and Sciences, Pudukkottai.                                        | 2025 Aug.        |
| <b>Examiner</b>                                   | Ph.D. Thesis Evaluation, Manonmaniam Sundaranar University (2 Ph.D. thesis evaluated)                                  | 2017 & 2025      |
| <b>Alternative Member</b>                         | Bureau of Indian Standards (BIS) - Pesticide Residue Analysis Sectional Committee – FAD 27                             | 2021 – 2025      |

|                                    |                                                                                                                        |           |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Chief Guest</b>                 | National Seminar on RELS-2024, K.M.G. College of Arts and Sciences, Gudiyattam.                                        | 2024 Feb. |
| <b>Member, CSIR Exhibitor</b>      | World Food India, Ministry of Food Processing Industries (MoFPI), Pragati Maidan, New Delhi                            | 2023 Nov. |
| <b>Examiner</b>                    | Ph.D. Thesis Evaluation, Mother Teresa Women's University (1 Ph.D. thesis evaluated)                                   | 2023 Aug. |
| <b>Chairperson</b>                 | International Conference ICFBN-2023, Karpagam Academy of Higher Education, Deemed to be University, Coimbatore, TN     | 2023 Mar. |
| <b>Guest of Honour</b>             | Organic Farming Technology & Development, FDP-STP Programme, UGC-HRDC & Mahakaushal University                         | 2022 Mar. |
| <b>Paper Setter / Examiner</b>     | University of Calicut, Kerala                                                                                          | 2022 Feb. |
| <b>Paper Setter / Examiner</b>     | Kerala Agricultural University, Kerala                                                                                 | 2021 Oct. |
| <b>Chief Guest</b>                 | 2 <sup>nd</sup> International Conference MBEM-2021, Vivekanandha College of Arts and Sciences for Women, Tiruchengode. | 2021 Mar. |
| <b>Chief Guest</b>                 | National Conference ESHPA-2020, M.S.S. Wakf Board College, Madurai.                                                    | 2020 Mar. |
| <b>Reviewer – Project Report</b>   | Gandhian Young Technological Innovation (GYTI) Awards, SRISTI, Ahmedabad, Gujarat.                                     | 2020 Feb. |
| <b>Chief Guest</b>                 | National Seminar RDAS-2019, ACAS College, Thiruchendur.                                                                | 2019 Aug. |
| <b>Reviewer – Project Proposal</b> | NECBH-DBT, IIT Guwahati, Assam.                                                                                        | 2019 Feb. |

|                                  |                                                                         |           |
|----------------------------------|-------------------------------------------------------------------------|-----------|
| <b>Paper Setter / Examiner</b>   | B.Tech. Food Engineering, Kerala Agricultural University, Kerala        | 2017 Nov. |
| <b>Chairperson</b>               | International Conference ICCB-2016, S.B.K. College, Aruppukottai        | 2016 Sep. |
| <b>Advisory Committee Member</b> | National Conference IPRBB-2015, A.V.V.M. Sri Pushpam College, Thanjavur | 2015 Sep. |

#### **ADMINISTRATIVE RESPONSIBILITIES / ACTIVITIES @ CFTRI**

|                         |                                                                           |                  |
|-------------------------|---------------------------------------------------------------------------|------------------|
| <b>Chairperson</b>      | School Management Committee, CFTRI School, Mysore                         | 2026 – till date |
| <b>Resource Person</b>  | Orientation Programme for the Ph.D. Research Scholars                     | 2023 – till date |
| <b>Co-Coordinator</b>   | M.Sc. Food Technology (FSS & TIC-C)                                       | 2022 – till date |
| <b>Internal Auditor</b> | ISO Standard: Environmental Management System & Quality Management System | 2021 – till date |
| <b>Member</b>           | Library Committee                                                         | 2021 – till date |
| <b>Secretary</b>        | Pesticide Science Study Group                                             | 2020 – till date |
| <b>Member</b>           | Doctoral Advisory Committee                                               | 2019 – till date |
| <b>Member</b>           | Project Fellow Selection Committee                                        | 2019 – till date |
| <b>Member</b>           | QMS & EMS Documentation Committee                                         | 2017 – till date |
| <b>Member</b>           | 75 Years Journey of CFTRI Main Highlights                                 | 2024 – 2026      |

|                     |                                                                                                          |             |
|---------------------|----------------------------------------------------------------------------------------------------------|-------------|
| <b>Member</b>       | Organizing Committee – National Symposium on Plant Proteins                                              | 2025 July   |
| <b>Member</b>       | Jigyasa Team - One Day as a Scientist programme                                                          | 2025 July   |
| <b>Coordinator</b>  | Physical Verification Committee – PMC and ITS&CS                                                         | 2025 May    |
| <b>Member</b>       | Organizing Committee – One Day Industry Meet for Floriculture Mission                                    | 2025 Mar.   |
| <b>Member</b>       | Special Campaign 4.0 Team for improving Swachhata and Disposal of Pending References                     | 2024 Oct.   |
| <b>Coordinator</b>  | Committee - Venue & Hall Arrangement, National Quiz Contest on Food Security Mission                     | 2023 Oct.   |
| <b>Paper Setter</b> | Committee - Question Paper Setting for Regional Level Contest on Food Security Mission                   | 2023 July   |
| <b>Member</b>       | Organizing Committee - Panel Discussion on Supplementary Foods for Women & Child Development -OWOL event | 2023 July   |
| <b>Member</b>       | Organizing Committee - CSIR-CFTRI Licensee Meet Academia-Industry Interactions - OWOL event              | 2023 July   |
| <b>Member</b>       | Committee - Question Paper Setting for M.Sc. Food Technology                                             | 2023 & 2024 |
| <b>Member</b>       | Organizing Committee - Monitoring Committee meet of ATLAS Mission                                        | 2022 Dec.   |
| <b>Moderator</b>    | GSPM Workshop 2022                                                                                       | 2022 Aug.   |
| <b>Co-Chairman</b>  | Technical Session - National Webinar FASST2022                                                           | 2022 May    |
| <b>Mentor</b>       | AcSIR CSIR800 Programme                                                                                  | 2022 Mar.   |

|                      |                                                                                                               |             |
|----------------------|---------------------------------------------------------------------------------------------------------------|-------------|
| <b>Expert Member</b> | Panel Discussion - Workshop on 3Ps of Food Industry: Processing, Preservation & Packaging                     | 2022 Mar.   |
| <b>Member</b>        | Organizing Committee – Azadi Ka Amrit Mahotsav Webinar IAFPGS                                                 | 2022 Jan.   |
| <b>Member</b>        | Evaluation Committee – Probation Period of CFTRI School Teachers and Staffs                                   | 2021        |
| <b>Member</b>        | CSIR JIGYASA Scientist-Student Contact Program                                                                | 2021 Nov.   |
| <b>Chairman</b>      | Financial Committee - International Conference ET-FPIC 2021, 24th & 25th Feb. 2021.                           | 2021 Feb.   |
| <b>Member</b>        | Scientist Selection Committee                                                                                 | 2020 Sep.   |
| <b>Member</b>        | Organizing Committee – ICP Virtual Colloquium                                                                 | 2020 Dec.   |
| <b>Rapporteur</b>    | VAIBHAV Summit: Horizontal – Food Safety & Nutritional Security, Sub-Horizontal - Storage & Handling Strategy | 2020 Oct.   |
| <b>Member</b>        | Swachada Pakhwada                                                                                             | 2018 May    |
| <b>Member</b>        | Exhibition - Adanya Chetana Seva Utsav                                                                        | 2017 Dec.   |
| <b>Member</b>        | Project Work Evaluation Committee - PG Nutri. Bio.                                                            | 2017 Jun.   |
| <b>Member</b>        | Physical Verification Committee                                                                               | 2017 – 2024 |
| <b>Convener</b>      | Departmental Seminar Programme                                                                                | 2015 – 2016 |

## **MEMBERSHIP IN ACADEMIC SOCIETIES**

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

## ACKNOWLEDGEMENTS



☆ Thank You ☆