



## Dr. S. EZIL VENDAN

Scientist & AcSIR Faculty,  
Food Protectants & Infestation Control Dept.,  
CSIR-Central Food Technological Research Institute,  
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### RESEARCH AREAS

- Insect-Plant Interactions
- Insect Behaviour & Biocontrol
- Insect Biochemistry & Physiology
- Insecticides Hazards & Food Safety

### 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

2017 – till date	<b>Scientist</b> , Food Protectants & Infestation Control Dept., CSIR- Central Food Technological Research Institute, Mysore, India.
2015 – 2017	<b>Scientist Fellow</b> , 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> , Research Centre, Mahavir Cancer Sansthan, Patna, Bihar, India.

## TEACHING EXPERIENCE

2017 – till date	AcSIR Faculty	Ph.D. Course Work	Infestation control, grain storage & pesticide residues
2017 – till date	AcSIR Faculty	M.Sc. Food Technology	Insect pests of stored spices & fumigation technique
2015 – till date	STC Faculty	Short Term Course	Biological pest control & pesticide residues

## HONOURS, AWARDS & FELLOWSHIPS

2019	<b>Gold Medal &amp; Young Scientist Award</b>	Motilal Nehru National Institute of Technology, Allahabad, UP.
2018	<b>Jagar Nath Raina Memorial All India Best Publication Award</b>	Sadhna, Dr. Y. S. Parmar University of Horticulture and Forestry, Solan, HP.
2018	<b>Best Poster Award</b>	8 <sup>th</sup> International Food Convention from Association of Food Scientists and Technologists, CSIR-CFTRI, Mysore. KA.
2015	<b>International Travel Fellowship</b>	Centre for International Co-operation in Science (CICS), Chennai, TN.
2012	<b>Reward of Honour</b>	Institute for Educational Research & Innovative Action (IERIA), Bhopal, MP.
2006	<b>JRF Fellowship</b>	UGC, Ministry of HRD, Govt. of India.
2003	<b>GATE Qualified</b>	IIT, Ministry of HRD, Govt. of India.
2003	<b>CSIR Qualified</b>	CSIR-UGC, Ministry of HRD, Govt. of India.

## INVITED LECTURES

- **Bioweapons: A View on Defense of Crops and Foods 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 & Technology for Insect Diversity Conservation & 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 Application**, *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 & 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 & Motivational Programme*, Mahavir Cancer Sansthan, Patna, Bihar, 22<sup>nd</sup> April 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.*

## RESEARCH PROJECTS

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	CSIR	In-House	MLP252	-
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	₹16,46,040/-
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	₹8,00,000/-
2018	Team	Study of ovicidal action of	UPL	R & D	SSP247	₹11,80,000/-

- 2018	Member	phosphine generated from quickphos aluminium phosphide tablets on selected stored grain insects		Scheme		
2017 – 2019	Principal – Investigator	Development of domestic scale storage bin for control of insect pests in stored food grains using plant based repellents	CSIR	In-House	MLP210	₹28,25,000
2016 – 2017	Team – Member	Multifaceted strategy for detection and control of insect infestation in rice	CSIR	In-House	MLP196	-

## TRAINING & CERTIFICATE COURSES

- 2017 **Intellectual Property Rights and Related Issues**, workshop organized by CSIR-HRDC, Ghaziabad and CSIR-CFTRI, Mysore, India.
- 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, India.
- 2001 **CCA (Certificate Course in Computer Application)** course conducted by TMC education, Madurai, India, recognized by New Delhi government.

## SCIENTIFIC PROGRAMMES ORGANIZED/CONTRIBUTIONS

- **Vaishwik Bharatiya Vaigyanik (VAIBHAV) Summit** (Global Summit of Overseas & Resident India Scientists & Academicians): Sub-Horizontal - Storage & Handling Strategy (Horizontal – Food Safety & Nutritional Security), *Rapporteur*, CSIR-CFTRI Championship, Mysore, Karnataka, 19<sup>th</sup> Oct. 2020.
- 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.

- Seminar Programme, **Current Scenario and Future Perspective in Biosciences, Organizing Secretary**, Saradha Rajans Hotel, Madurai, Naesam Trust sponsored, 6<sup>th</sup> Mar. 2011.
- 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.
- Seminar Programme, **Recent Trends in Advanced Biology, Organizing Secretary**, Aarthy Hotel, Madurai, Naesam Trust sponsored, 21<sup>st</sup> Jan. 2007.

#### **COUNTRIES VISITED** [Professional / Academic purpose]

- Saudi Arabia & Egypt

#### **SELECTED PUBLICATIONS** [Total Citations – 600; i10-index - 13]

- **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>)
- 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.
- **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)
- 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)
- 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 tetragonoloba* (L) Taub. *Journal of The Saudi Society of Agricultural Sciences*. 13: 23-27. (<https://doi.org/10.1016/j.jssas.2012.12.003>)

- Nath, A., Priyanka, **Vendan, S. E.**, Kumar, S., Kumar. A. and J. K. Singh. 2013. Toxicity due to arsenic in Gangetic zone of Patna, India and its linkage with cancer. *Journal of Environmental and Analytical Toxicology*. 3:6, 1-3. (doi: 10.4172/2161-0525.1000192)
- 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)
- 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.
- 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)
- **Vendan, S. E.** 2011. Endosulfan ban in India: for good or not?. *Current Science*. 101 (11): 1398.
- 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)
- 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)
- **Vendan, S. E.** and A. A. P. Anand. 2010. Is Masters of Philosophy worth pursuing?. *Current Science*. 99 (8): 994.
- **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.

- **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.
- 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)
- Anand, A. A. P., Vennison, S. J., Sankar, S. G., Prabhu, I. G., Vasan, 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)
- 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: Noctuidae). *Chemosphere*. 75: 355-359. (doi:10.1016/j.chemosphere.2008.12.034)
- 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)
- Ignacimuthu, S. and **S. E. Vendan**. 2008. Botanical pesticides in insect pest management. *Uttar Pradesh Journal of Zoology (Suppl.)*. 4 (1): 141-154.
- 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.

## BOOK CHAPTERS

- **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)
- **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)



- **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)
- **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)

## RESEARCH PAPER PRESENTATIONS

- 2019 National Conference on Advances in Microscopy and Foldscope, Motilal Nehru National Institute of Technology (MNNIT), Allahabad, India (**Oral Presentation**)
- 2017 6<sup>th</sup> 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 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, 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 4<sup>th</sup> Bihar Science Conference 2011, L.S. College, Muzaffarpur, Bihar, India. (*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, 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*)

#### **DOCTORAL / PROJECT STUDENTS GUIDANCE - Ongoing**

Dr. Samar Sayed Ibrahim	Post Doctoral Fellow (TWAS-CSIR)	International PDF Program
Ms. Liza George	Project Fellow (SRF-MoFPI)	GAP-0533 Project
Ms. Urvashi Sahu	Ph.D. Research Scholar (SRF-CSIR)	AcSIR Ph.D. Program
Ms. Madhurya L	Ph.D. Research Scholar (JRF-CSIR)	Mysore Univ. Program
Ms. Pratiksha Prabhakar G	Ph.D. Research Scholar (JRF-CSIR)	AcSIR Ph.D. Program
Ms. Aswathi K. S	Ph.D. Research Scholar (JRF-CSIR)	AcSIR Ph.D. Program
Ms. Geetha Harshini A.V.S	PG Research Fellow	Dissertation Project
Ms. Ann Sara Mathews	UG Research Fellow	Dissertation Project

#### **PROJECT STUDENTS GUIDANCE - Completed**

Dr. Veerabhara Swamy A. L. (Trainee, SRTP-2020); Dr. Sowndhararajan K. (Trainee, SRTP-2020); Mr. Tamil Selvan V. T. (Trainee, SRTP-2020); Ms. Shaba N. (PA, MLP-222); Ms. Theertha D. P. (JRF, GAP-527).

#### **DISSERTATION PROJECT GUIDANCE - Completed**

- Nehaa, K. 2019. Optimization of biofumigation process for the control of stored product insect pests. *B.Tech. Biotechnology, Rajalakshmi Engineering College, Chennai.*
- Srimathi, J. 2019. Generation of plant volatiles and evaluation of toxicity against stored product insect pests. *B.Tech. Biotechnology, Rajalakshmi Engineering College, Chennai.*
- Swathi, R. 2019. Fumigation effect of selected phytochemicals and cuticular surface chemical profile analysis in stored product insect pests. *B.Tech. Biotechnology, Jeppiaar Engineering College, Chennai.*

- Das, A. 2018. Determination of topical sedimentation and uptake of phytochemicals through cuticular surface in fumigated stored product insect pests. *M.Sc. 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. 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. 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. Food Technology, Gautam Budha University, Lucknow, Uttar Pradesh.*

### REVIEWER IN JOURNALS

- Proceedings of the Zoological Society, *Springer* (2020)
- Psyche: A Journal of Entomology, *Hindawi* (2020)
- Food Hydrocolloids, *Elsevier* (2019)
- Journal of Herbal Medicine, *Elsevier* (2019)
- International Journal of Tropical Insect Science, *Springer* (2019)
- Environmental Sustainability, *Springer* (2018)
- European Journal of Integrative Medicine, *Elsevier* (2017)
- Ethnobotany Research & Applications, *Georgia* (2019)
- International Journal of Insect Sciences, *Libertas Academica* (2015 - 2017)
- Entomology, Ornithology & Herpetology: Current Research Journal (2015 to 2017)
- Journal of Food: Microbiology, Safety & Hygiene (2016 to 2017)

### MEMBERSHIP IN JOURNAL EDITORIAL BOARDS

- Trends in Biosciences (2018 to till date)
- Indian Journal of Natural Sciences (2016 to till date)
- Environmental Health Insights (2015 to 2017)
- Int. J. Envir. Sci. & Toxi. Res. (2015 to 2017)

### SCIENTIFIC/OUTREACH ACTIVITIES CITED IN SOCIAL MEDIA

- |  |                           |                            |
|--|---------------------------|----------------------------|
| 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 |
| Yearikai Poochikolli Ponneem                 | Naveena Velanmai magazine | Sep 2008                   |

## PROFESSIONAL CONTRIBUTIONS

<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>Examiner</b>	Ph.D. Thesis Evaluation, Bharathidasan University (11 Ph.D. thesis evaluated)	2019 - till date
<b>Examiner</b>	Ph.D. Thesis Evaluation, Manonmaniam Sundaranar University (1 Ph.D. thesis evaluated)	2017 Oct.
<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 @ CFTRI

<b>Secretary</b>	Pesticide Study Science Group	2020 – till date
<b>Member</b>	Project Fellow Selection Committee	2019 Dec.
<b>Member</b>	Doctoral Committee	2019 – till date.
<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 Nutr Bio	2017 Jun.

<b>Member</b>	EMS Documentation Committee	2017 – till date
<b>Member</b>	Physical Verification Committee	2017 – till date
<b>Convenor</b>	Departmental Seminar Programme	2015 – 2016

#### **MEMBERSHIP IN ACADEMIC SOCIETIES**

<b>Life Member</b>	National Academy of Biological Sciences (NABS)	2017 – till date
<b>Life Member</b>	The Indian Science Congress Association (ISCA)	2012 – till date

☆ *Thank You* ☆