Dr. VIJAYASREE V

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Summary

I have done my Doctoral degree in Entomology from Kerala Agricultural University with specialisation in Agricultural Entomology and have demonstrated teaching, research, analytical and training experience. I am experienced in identification of insects, study of their biology, population dynamics, nature of feeding and damage, impact of climatic change on population and in environmental friendly integrated management programmes based on semiochemicals. I have experience in sample collection, preparation and estimation of trace level of pesticide residues, in water, agricultural products, and soil using chromatographic and mass spectrometric methods in the ISO17025 accredited All India Network Project on Pesticide Residues. Additionally, I was associated with AICRP on Honeybees and Pollinators where I focused on honey bee management. I am also the principal investigator of the project "Development and field evaluation of biodegradable pheromone nano gels against major Coleopteran pests of coconut". My publications include 20 research papers, 4 books or book chapters, and 32 popular articles.

Research Highlights

- Identified safer novel insecticides for managing fruit borer pests of vegetables, established their compatibility with biopesticides, fixed pre-harvest intervals and standardized cost effective decontamination techniques. The results contributed immensely to the “safe vegetable” demand, establishing the uniqueness of this study.
- Contributed package of practices recommendations on management of borer pests of vegetables
- Identified seven new pests of coccinia, their nature of feeding and damage contributed immensely in devising a suitable pest management strategy for the crop.

Experience

Joined Kerala Agricultural University as Assistant Professor in the year 2019

Education

- Graduated in Agricultural Science from Kerala Agricultural University (2003)
- Post Graduation in Agricultural Entomology from Kerala Agricultural University (2006)
- Ph.D in Agricultural Entomology from Kerala Agricultural University (2013)

Area of Specialization

Insecticide Toxicology, Insect plant semiochemicals, Apiculture

Awards & Recognitions

The PhD thesis titled "Efficacy and biosafety of new generation insecticides for the management of fruit borers of cowpea, brinjal and okra" bagged **P.K.R. Nair Award-2013 for outstanding Post Graduate Research in Agriculture/Forestry** instituted by Kerala Agricultural University.

Research Projects

Ongoing (As Principal Investigator)

Name of project	Funding Agency
"Development and field evaluation of biodegradable pheromone nano gels against major Coleopteran pests of coconut"	Coconut development board
Ongoing (As Co-Principal Investigator)	
Annual Plan Project 2024-25-" "Integrated approaches for management of Mahagony Shoot borer- *Hypsipyla robusta* Moore"	

Publications

Journal Articles
(Scopus indexed)

1. Harithasree V S **, Vijayasree V** and Amritha V S 2025.Exploring enzyme variation in honey as a marker for quality. Indian Journal of Natural Products and Resources.Vol. 16(3), September, pp. 436-444
2. Rajan-Letha, A., **Vijayasree, V** & Chandran-Lathakumari, A. (2025). Chemical composition of Stingless bee, (*Tetragonula iridipennis* Smith) propolis. *Journal of Chemical Ecology* **51**, 76. https://doi.org/10.1007/s10886-025-01625-y
3. Anchu, C., **Vijayasree , V.,** Abhijith, R., & Sheena, A. (2025). Foraging interaction of stingless bee Tetragonula travancorica with flowers in ornamental plants. Entomon, 50(2), 137–144.
4. Geethu Gopakumar and **Vijayasree V.** (2025). Olfactory and electrophysiological response of cucumber moth *Diaphania indica* (Saunders) (Lepidoptera, Crambidae) to different plants Entomon 49(4): 477-486.
5. **Vijayasree, V**., Bai, H., and Madappallikunnil Sarojiniamma, S. (2024). Dissipation kinetics and decontamination of novaluron residues in cowpea, eggplant, and okra. Toxicological & Environmental Chemistry, 1–9. https://doi.org/10.1080/02772248.2024.2330354
6. Pradeepkumar, G., **Vijayasree, V**., and Chandran, K. S. (2023). Growth dilution and its effect on pesticide dynamics in Okra. Entomon, 48(3), 357–364. https://doi.org/10.33307/entomon.v48i3.937
7. Kumar, S. V., Subhashchandran, K.P., Thomas, G., Paul A., George, X., **Vijayasree, V** and Suryamol, S. 2019. Dinotefuran residues and their dissipation in chilli pepper (*Capsicum annuum* L.) and soil and their risk assessment. Pesticide Research Journal. 31(2):211
8. **Vijayasree, V** and Hebsy Bai.2019. Efficacy and biosafety of new generation insecticides for the management of *Leucinodes orbonalis* Guenee (Lepidoptera: Pyralidae) in brinjal and *Earias vitella* Fabricius (Lepidoptera: Noctuidae) in okra. Entomon.44(3), 203–212
9. Xavier, G., Chandran, M., Beevi, S. N., Mathew, T. B., George, T., **Vijayasree, V**., Pratheeshkumar, N., and Kumar S. V., 2016. Persistence of fenpyroximate in chilli pepper (*Capsicum annum* L.) and soil and effect of processing on reduction of residues. Pesticide Research Journal. Vol. 28(2):145-151.
10. **Vijayasree, V.,** Bai, H., Beevi, S.N., Mathew, T. B., George, T., and Xavier, G. 2015. Persistence and effect of processing on reduction of chlorantraniliprole residues on brinjal and okra fruits. Environmental Monitoring and Assessment. 187:1-9

11. **Vijayasree, V**., Bai, H., Mathew, T. B., George, T., Xavier, G., Pratheesh, K.N., and Kumar, V. 2014. Dissipation kinetics and effect of different decontamination techniques on the residues of emamectin benzoate and spinosad in cowpea pods. Environmental Monitoring and Assessment. 186:4499–4506.
12. Xavier, G., Chandran, M., George, T., Beevi , S. N. Mathew, T. B , Paul , A., Arimboor, R., **Vijayasree ,V***., Pradeepkumar, G. T., and Rajith, R. 2014. Persistence and effect of processing on reduction of fipronil and its metabolites in chilli pepper (*Capsicum annum* L.) fruits. Environmental Monitoring and Assessment. 186:5429–5437
13. **Vijayasree, V**., Hebsy Bai, Naseema Beevi, S., Thomas Biju Mathew., Vijayaraghava Kumar., Thomas George and George Xavier. 2013. Persistence and effects of processing on reduction of Chlorantraniliprole residues on cowpea fruits. Bulletin of Environmental contamination and toxicology. 90 (4): 494-498.
14. **Vijayasree. V**., S. Naseema Beevi S and Xavier George.2012. Efficacy of botanicals and synthetic insecticides against pests of coccinia and their safety to predatory spiders. Pesticide Research Journal., 24(1): 47-50.

Articles not indexed in Scopus

1. Raj NG, Santhosh Kumar T, Narayana NR, Vijayasree V. 2024. Field efficacy of andrographolide based formulations against cowpea aphids, *Aphis craccivora* Koch (Homoptera: Aphididae), and their safety to predator, *Coccinella transversalis* Fab. (Coleoptera: Coccinellidae) in cowpea. Res. Jr. Agril.
   Sci. 15(2): 589-593.
2. Sailaja Kumari, M. S., T. Maya, **V. Vijayasree** and Gayathri Unnikrishnan 2022. Composting efficiency as influenced by the combined application of earthworms and microbial inoculum. Green Farming,13(3&4):414-416.May-August. 2022.
3. Sailaja Kumari M.S, Maya T, Tulasi V, Gayathri Unnikrishnan, **VijayasreeV**, Ambika Devi. Pollution status of heavy metals in the southern stretches of riverine stations under Vembanadu lake. I J R B A T, Issue (XI) Vol (I) Jan 2023: 01-07.
4. **Vijayasree V**,.Naseema Beevi S, and Nalinakumari .T .2012. Bioecology and seasonal abundance of sucking pests infesting Coccinia. Madras Agricultural Journal., 99 (10-12): 829-831.
5. **Vijayasree.V**., Nalinakumari T. and Xavier, G. 2011.Damage potential of spiralling whitefly, Aleurodicus dispersus and red spider mite, Tetranychus spp. and influence of weather parameters on their occurrence in *Coccinia grandis* (L.)Voigt. Pest Management in Horticultural Ecosystem., 17(2): 109-112.
6. **Vijayasree.V.,** Nalinakumari T. and Xavier, G. 2011.Seasonal abundance and damage potential of major defoliators infesting Coccinia, *Coccinia grandis* (L.)Voigt in Kerala. Pest Management in Horticultural Ecosystem., 17(2): 113-120

Popular Articles

1. Abhijith R L, **Vijayasree V,** Amritha V. S. 2023."Propollis-cherutheeecha". Kalpadhenu.
2. Anchu CL, **VijayasreeV** and Amritha VS "Udyanathil pookkalodoppam cherutheneechayum" Kalpadhenu (July-September issue).2023
3. **Vijayasree V** and Amritha V. S.,. 2022**.**Sudhadha urappakkam-gunamenmayulla theninayi Kalpadhenu
4. **Vijayasree V** and Rakhi R. 2022**.** Rambutanile keedaroga niyanthrana margangal" Kerala Karshakan
5. Allen Joy, Amritha V. S., and **Vijayasree V**. 2022.Gunamerum theneecha visham:labhamerum theneecha krishi.Kalpadhenu
6. Pahee, A., Amritha, V. S. and **Vijayasree, V.** 2022. Probiotics: An ameliorate of bee health. Kerala karshakan, 10(05):10-13

7. Amritha V. S., **Vijayasree V.** and Nissy Issac, "Ithaa Puthiya Poompodi keni" 2021, Karshakasree.27(12): 98
8. Vijayasree,V Kaythurappan vallippayarinte shathru. 2019 Kerala Karshakan
9. Vijayasree,VMazhakkalamethi bheeshaniyayi ochukalum.2019. Kerala Karshakan
10. Vijayasree,V Sheethakalapachakkarikalile keedabhadhakal. 2019 Kerala Karshakan
11. Vijayasree,V and Thomas Biju Mathew Visharahitamaya kaykanikalkkayi sradhayode. 2014 Rakshtraveekshanam
12. Vijayasree,V Keedanasinikalum arogyaprasnangalum 2013 Karshakan
13. Vijayasree,V Sasyasamrakshana vasthukkalum, rasavalangalum poruthavum poruthakkedum. 2013 Karshakan
14. Vijayasree,V Salkapranikale niyanthrikkanam. 2013 Kerala Karshakan
15. Vijayasree,V Pavalthottathile sathru keedanagal. 2012 Karshakan
16. Vijayasree, Rosayile keedangalum niyanthranamargavum 2012 Karshakan
17. Vijayasree,V Tomato fruit borers and their management. 2012 Vatika
18. Vijayasree,V Keralathininangiya chempinangal. 2012 Mathrubhumi Daily
19. Vijayasree,V Mikacha koorkayinangal. 2012 Mathrubhumi Daily
20. Vijayasree,V Inam nokkiyavam vazhuthanakrishi. 2012 Mathrubhumi Daily
21. Vijayasree,V Keedanasiniyekkal viruthanmaro keedangal. 2012 Karshakan
22. Vijayasree,V Elakkayude chorikku marunnadikkumbol sookshikkuka.2012 Karshakan.
23. Vijayasree,V Thomas Biju Mathew Naseema Beevi S Vazhutanayile viruthanethire samyojitha niyanthranam2012 Karshakan.
24. Vijayasree V Kachil nalloru idavila 2012 Harithabhoomi
25. Vijayasree,V Vishavimuktamaya bakshyavastukkalilude arogyamulla samooham. 2012 Panchayathraj
26. Vijayasree,V Manthoppile rasamkollikal 2012 Kerala Karshakan
27. Vijayasree,V Anupamayenna muringayinam 2012 Mathrubhumi Daily
28. Vijayasree,V.Scale insects in vegetables & their management. 2012 Vatika
29. Vijayasree,V Koval- Poshakangalude kalavara 2012 Krishiyankanam
30. Vijayasree,VKathirikkam kathiruppukalam kazhiyan2012 Krishiyankanam
31. Vijayasree,V Keetanasini niyamamangalum chattangalum 2011 Kerala Karshakan
32. Vijayasree,V. Kovalinte keedakramanavum niyanthranamargangalum2006 Vijnanakairali

Books/Chapters in Books

1. Thomas Biju Mathew, Thania Sara Varghese, **V. Vijayasree**, K. Pallavi Nair, P. R. Nithya, and S. M. Seena 2024 Pesticide Residues in Indian Spices Handbook of Spices in India: 75 Years of Research and Development, © Springer Nature Singapore Ltd. https://doi.org/10.1007/978-981-19-3728-6_17

2. Vijayasree, V and Santhakumari, P. 2012. Pazham pachkkarikal (Fruits and Vegetables). Published by State Institute of Languages, Kerala.152 p.

3.Vijayasree, V and Santhakumari, P. 2012. Biocontrol of crop pests. Published by Kalyani Publishers, Lucknow, India. 282 p.

4.Santhakumari, P., Vijayasree, V and Sreeja.S.Nair. 2015. Kalavara keedangalum niyanthranavum (Post harvest pests and diseases and control measures), Publishers State Institute of Languages, Kerala (55p.)

Student Guidance (Major Advisor/ Advisory Committee member)

PhD

Ongoing : 3

M. Sc. (Major Advisor/ Advisory Committee member)

Completed: 9

Ongoing : 1

(Advisory Committee member)

M. Sc.:5

PhD:3

Other Institutional Responsibilities

1. Currently acting as student Advisor/faculty mentor to 9 Undergraduate students.
2. Member of permanent team of Karshaka Santhwanam

Membership in Professional Associations

1.Member , Technical committee, **BIS, FAD 3**

2. Life member of the Association for Advancement of Entomology

3. Life Member of the Society of Pesticide Science, India

4. Life Member of the Association for Advancement of Pest Management in Horticultural Ecosystems

5.Reviewer of springer journals, Indian Journal of Natural Products and Resources,Pesticide research journal and Journal of tropical agriculture