

Dr. VIJAYASREE V

Assistant Professor, RARS(SZ), Vellayani

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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. 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. Currently I am associated with AICRP on Honeybees and Pollinators and is working on honey bee management aspects.

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.
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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)
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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 Co-Principal Investigator)

Name of project	Funding Agency
AICRP on Honeybees and Pollinators	ICAR
"Setting up of Centre of Excellence in Advanced Beekeeping"	National Bee Board
"Setting up of mini honey testing lab"	National Bee Board
Supervised Field Trial on "Residue and Persistence (Dissipation) of Tetraniliprole 120 GIL + Spirotetram at 240 GIL SC (VAYEGO CARE) in/on Chilli and Soil (one season)"	M/s Bayer Crop Sciences Limited, Maharashtra

Publications

Journal Articles

(Scopus indexed)

1. 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
2. **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
3. 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.
4. **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
5. **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.
6. 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
7. **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.
8. **Vijayasree. V.**, S. Naseema Beevi S and Xavier George.2012. Efficacy of botanicals and synthetic insecticides against pests of coccidia and their safety to predatory spiders. Pesticide Research Journal., 24(1): 47-50.

Articles not indexed in Scopus

1. 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.
2. 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.
3. 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. Vijayasree V and Amritha V. S.,. 2022.Sudhadha urappakkam-gunamenmayulla theninayi Kalpadhenu
2. Allen Joy, Amritha V. S., and Vijayasree V. 2022.Gunamerum theneecha visham:labhamerum theneecha krishi.Kalpadhenu
3. Amritha V. S., Vijayasree V. and Nissy Issac, “Ithaa Puthiya Poompodi keni” 2021, Karshakasree.27(12): 98
4. Vijayasree,V Kaythurappan vallippayarinte shathru. 2019 Kerala Karshakan
5. Vijayasree,VMazhakkalamethi bheeshaniyayi ochukalum.2019. Kerala Karshakan
6. Vijayasree,V Sheethakalapachakkarikalile keedabhadhakal. 2019 Kerala Karshakan
7. Vijayasree,V and Thomas Biju Mathew Visharahitamaya kaykanikalkkayi sradhayode. 2014 Rakshtreveekshanam
8. Vijayasree,V Keedanasinikalum arogyaprasnangalum 2013 Karshakan
9. Vijayasree,V Sasyasamrakshana vasthukkalum, rasavalangalum poruthavum poruthakkedum. 2013 Karshakan
10. Vijayasree,V Salkapranikale niyanthrikanam. 2013 Kerala Karshakan
11. Vijayasree,V Pavalthottathile sathru keedanagal. 2012 Karshakan
12. Vijayasree, Rosayile keedangalum niyanthranamargavum 2012 Karshakan
13. Vijayasree,V Tomato fruit borers and their management. 2012 Vatika
14. Vijayasree,V Keralathininangiya chempinangal. 2012 Mathrubhumi Daily
15. Vijayasree,V Mikacha koorkayinangal. 2012 Mathrubhumi Daily
16. Vijayasree,V Inam nokkiyavam vazhuthanakrishi. 2012 Mathrubhumi Daily
17. Vijayasree,V Keedanasiniyekkal viruthanmaro keedangal. 2012 Karshakan
18. Vijayasree,V Elakkayude chorikku marunnadikkumbol sookshikkuka.2012 Karshakan.
19. Vijayasree,V Thomas Biju Mathew Naseema Beevi S Vazhutanayile viruthanethire. samyojitha niyanthranam2012 Karshakan.
20. Vijayasree V Kachil nalloru idavila 2012 Harithabhoomi
21. Vijayasree,V Vishavimuktamaya bakshyavastukkalilude arogyamulla samooham. 2012 Panchayathraj
22. Vijayasree,V Manthoppile rasamkollikal 2012 Kerala Karshakan
23. Vijayasree,V Anupamayenna muringayinam 2012 Mathrubhumi Daily
24. Vijayasree,V.Scale insects in vegetables & their management. 2012 Vatika
25. Vijayasree,V Koval- Poshakangalude kalavara 2012 Krishiyankanam
26. Vijayasree,VKathirikkam kathirupukalam kazhiyan2012 Krishiyankanam
27. Vijayasree,V Keetasini niyamamangalum chattangalum 2011 Kerala Karshakan
28. Vijayasree,V. Kovalinte keedakramanavum niyanthranamargangalum 2006 Vijnanakairali

Books/Chapters in Books

1. Vijayasree, V and Santhakumari, P. 2012. Pazham pachkkarikal (Fruits and Vegetables). Published by State Institute of Languages, Kerala. 152 p.
 2. Vijayasree, V and Santhakumari, P. 2012. Biocontrol of crop pests. Published by Kalyani Publishers, Lucknow, India. 282 p.
 3. 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.)
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Student Guidance (Major Advisor/ Advisory Committee member)

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

Completed: 1

Ongoing : 3

(Advisory Committee member)

M. Sc.:3

PhD:2

Other Institutional Responsibilities

1. Currently acting as student Advisor/faculty mentor to 5 Undergraduate students.
2. Member of permanent team of Karshaka Santhwanam
3. Member of stadium management committee

Membership in Professional Associations

1. Member , Technical committee, BIS, FAD 3
2. Life member of the Association for Advancement of Entomology
2. Life Member of the Society of Pesticide Science, India
3. Life Member of the Association for Advancement of Pest Management in Horticultural Ecosystems