



**Dr. PARTHIBAN P, M.Sc. (Agri.), Ph.D. (Entomology)**

Scientist & Assistant Professor of AcSIR

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**Expertise Area**

- ✓ Experience working in Agricultural Chemicals, mainly field and laboratory research
- ✓ Experience in developing Pheromone and Silica based IPM modules for field and horticultural crops
- ✓ Experience in Indian plant quarantine, storage pests, fumigation, laboratory, and field inspection, mainly airports, seaports & pack houses
- ✓ Experience in the identification of a broad range of insects in the field and horticultural crops
- ✓ Experience working in the rearing of different groups of insects (Coleopteran, Lepidopteran & Hymenopteran insects)
- ✓ Experience in crop production, including agriculture, horticulture & hydroponics
- ✓ Experience in teaching and education background in agricultural science
- ✓ Experience in agricultural machinery/implements/equipment/UAV/different types of irrigation systems
- ✓ Experience in statistical analysis packages, viz. Agdata, Agres, Probit analysis, SAS, and SPSS

**Academic Qualification**

|                        |                                                                                                                                                    |      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Ph. D. (Entomology)    | Agricultural College and Research Institute, Madurai - 625 104<br><b>Tamil Nadu Agricultural University, India</b>                                 | 2016 |
| M. S. (Entomology)     | Agricultural College and Research Institute, Madurai - 625 104<br><b>Tamil Nadu Agricultural University, India</b>                                 | 2013 |
| B. S.<br>(Agriculture) | Pandit Jawaharlal Nehru College of Agriculture and Research<br>Institute, Karaikal - 609 603,<br><b>Tamil Nadu Agricultural University, India.</b> | 2011 |

**Experience**

|                             |                                                                                                   |                  |
|-----------------------------|---------------------------------------------------------------------------------------------------|------------------|
| Scientist                   | CSIR – Central Food Technological Research Institute (CFTRI),<br>Mysuru, Karnataka, India         | 2023 – till date |
| Deputy Manager              | J Farm Research Centre, Tractors and Farm Equipment Limited<br>(TAFE), Chennai, Tamil Nadu, India | 2021 - 2023      |
| Senior Technical<br>Officer | Regional Plant Quarantine Station, Govt. of India<br>Chennai, Tamil Nadu, India                   | 2019 - 2021      |
| Research Associate          | Plant Quarantine Station, Govt. of India<br>Trivandrum, Kerala, India                             | 2018 - 2019      |
| Assistant Professor         | Adhiparasakthi Agricultural College, Vellore, Tamil Nadu, India                                   | 2016 - 2018      |

**Students Guided (Ongoing/ Completed)**

|    |              |                                                                                             |                                |       |      |
|----|--------------|---------------------------------------------------------------------------------------------|--------------------------------|-------|------|
| 1. | Anagha Madhu | M.Voc. (Food Processing technology)<br>Thesis Work<br>St. Teresa's College<br>(Autonomous), | Stored Product Entomology Work | Guide | 2025 |
|----|--------------|---------------------------------------------------------------------------------------------|--------------------------------|-------|------|

|    |                                                                                                                |                                                                                                                                    |                                                                                                                                           |          |             |
|----|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|
| 2. | Savya Suresh                                                                                                   | Ernakulum, Kerala<br>M.Voc. (Food Processing technology)<br>Thesis Work<br>St. Teresa's College (Autonomous),<br>Ernakulum, Kerala | Stored Product Entomology Work                                                                                                            | Guide    | 2025        |
| 3. | Ms. D. Sahana                                                                                                  | M.Sc. (Biotechnology)<br>Thesis Work<br>Pooja Bhagavat Memorial Mahajana P. G. Centre, Mysore, Karnataka                           | Colonization of <i>Bacillus licheniformis</i> in <i>Caenorhabditis elegans</i> Sydney Brenner (Rhabditida: Rhabditidae)                   | Guide    | 2024        |
| 4. | Ms. S. S. Shwetha                                                                                              | M.Sc. (Biotechnology)<br>Thesis Work<br>Pooja Bhagavat Memorial Mahajana P. G. Centre, Mysore, Karnataka                           | Effect of <i>Lactobacillus fermentum</i> on growth and survival of <i>Caenorhabditis elegans</i> Sydney Brenner (Rhabditida: Rhabditidae) | Guide    | 2024        |
| 5. | Ms. Baharani Soren                                                                                             | M.Sc. (Biotechnology)<br>Thesis Work<br>Ranchi University, Ranchi, Jharkhand                                                       | Stored Product Entomology Work                                                                                                            | Guide    | 2024        |
| 6. | Ms. T. Geetha                                                                                                  | M.Sc. (Microbiology)<br>Internship Work<br>Dr. N.G.P. Arts and Science College, Coimbatore, Tamil Nadu                             | Microbiology & Stored Product Entomology Work                                                                                             | Guide    | 2024        |
| 7. | Ms. B. Abinaya Ragavi<br>Ms. G. Vyshali<br>Ms. S. Keerthana<br>Ms. R. Sowmya<br>Ms. S. Suriya<br>Ms. T. Janani | B. Sc. (Agriculture)<br>Project Work<br>Adhiparasakthi Agricultural College, Vellore, Tamil Nadu                                   | Bio-efficacy evaluation of newer insecticides against Lepidopteran pests of groundnut ( <i>Arachis hypogaea</i> L.).                      | Chairman | 2016 – 2017 |
| 8. | Ms. K. Bharathi<br>Ms. H. Hibah S,<br>Fathima<br>Ms. A. Ishwarya<br>Ms. V. Kalaivani<br>Ms. E. Savithiri       | B. Sc. (Horticulture)<br>Project Work<br>Adhiparasakthi Horticultural College, Vellore, Tamil Nadu                                 | Bio-efficacy evaluation of newer insecticides against Lepidopteran pests of okra ( <i>Abelmoschus esculentus</i> L.)                      | Chairman | 2016 – 2017 |

### **Computer Skills**

|                   |                                                                                     |
|-------------------|-------------------------------------------------------------------------------------|
| Course completed  | : Diploma in Computer Application (DCA; Year - 2007)                                |
| Operating Systems | : Windows (All versions), LINUX                                                     |
| Software Packages | : MS Office, Star Office, Open Office, Agdata, Agres, Probit analysis, SAS and SPSS |

### **Medals, Awards, and Fellowships obtained**

|    |             |   |                                                                                          |
|----|-------------|---|------------------------------------------------------------------------------------------|
| 1  | 2020        | - | Young Scientist Award, Dr. B. V. David Foundation                                        |
| 2  | 2020        | - | Life Fellow, The Entomological Society of India                                          |
| 3  | 2018        | - | Excellence in Research, Osmania University, Hyderabad - International                    |
| 4  | 2017        | - | Scientist of the Year, IIRR - Hyderabad                                                  |
| 5  | 2017        | - | A. S. R. B. – N. E. T., ICAR, New Delhi                                                  |
| 6  | 2014        | - | A. S. R. B. – N. E. T., ICAR, New Delhi                                                  |
| 7  | 2012 - 2013 | - | Junior Research Fellow, M/s. Syngenta India Private Ltd., Mumbai                         |
| 8  | 2010 - 2011 | - | President in ROTRACT CLUB, PAJANCOA & RI, Karaikal                                       |
| 9  | 2007        | - | Secure first mark in Zoology at school level (XII Std.), Government of Tamil Nadu, India |
| 10 | 2005        | - | Distinction in Tamil (X Std.), Government of Tamil Nadu, India                           |

### **Details of Training Course / Symposium / Seminars / Conference / Workshop/ Expo attended/ presented**

|    |                                                                                            |                               |                                                    |          |          |
|----|--------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------|----------|----------|
| 1. | Effective Silo Grain Post-Harvest management                                               |                               | Lotus Harvestec & E&G Pathway                      | 07.04.25 | 08.04.25 |
| 2. | Recent Scientific Advances in Agricultural and Environmental Sciences                      | National Conference*          | Dr. B. V. David Foundation, Chennai                | 05.12.20 | -        |
| 3. | Integrated Pest Management on Fall Army Worm in Maize Crop                                 | National Webinar*             | Irrigation Management Training Institute, Trichy   | 25.08.20 | -        |
| 4. | ICAR-NRCB Webinar on Approaches and Strategies for Augmenting Export of Bananas from India | International Webinar*        | ICAR – National Research Centre for Banana, Trichy | 21.08.20 | -        |
| 5. | Invasive Agricultural Pests of India                                                       | Popular Science Webinar@      | District Science Centre, Tirunelveli               | 09.08.20 | -        |
| 6. | ICAR-NRCB Webinar on Integrated Insect Pests and Nematodes Management in Banana            | National Webinar*             | ICAR – National Research Centre for Banana, Trichy | 04.08.20 | -        |
| 7. | National Webinar on Plant Biological Interventions for Climate Smart Agriculture           | National Webinar*             | Bihar Agricultural University, Bihar               | 30.07.20 | -        |
| 8. | The Science of Yogic Breathing                                                             | International Web Conference* | Presidency College, Chennai                        | 24.07.20 | -        |
| 9. | TV Ramakrishna Ayyar Memorial Lecture and Workshop on Entomology and Entrepreneurship      | Workshop*                     | AC & RI, Madurai and<br>ESI, New Delhi             | 13.02.18 | -        |

|     |                                                                                                                                |                                  |                                       |          |          |
|-----|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------|----------|----------|
| 10. | International Conference on Advances in Agriculture and Allied Science Technologies for Sustainable Development                | International Conference**       | Osmania University, Hyderabad         | 10.02.18 | 11.02.18 |
| 11. | International Conference on Biocontrol and Sustainable Insect Pest Management (ICBS)                                           | International Conference**       | AC & RI, Killikulam                   | 29.01.18 | 31.01.18 |
| 12. | Technological Challenges in Social, Environmental and Agricultural Reforms                                                     | National Conference**            | IIRR, Hyderabad                       | 09.09.17 | 10.09.17 |
| 13. | Entrepreneurship Awareness Camp on value addition of millets                                                                   | Entrepreneurship Awareness Camp* | APAC, Vellore                         | 06.09.17 | 08.09.17 |
| 14. | Workshop on GC-MS Analytical platforms for metabolomics: A way to understand complex biological pathways                       | Workshop*                        | AC & RI, Madurai                      | 14.02.17 | -        |
| 15. | NSS orientation training programme                                                                                             | Training*                        | Avinashilingam University, Coimbatore | 01.02.17 | 07.02.17 |
| 16. | Entrepreneurship Awareness Camp on Fruit and Vegetable Processing Technologies to Enhance Entrepreneurship Skills              | Entrepreneurship Awareness Camp* | APAC, Vellore                         | 08.11.16 | 10.11.16 |
| 17. | Workshop on Elemental analysis made simple for agricultural scientists: “X-ray fluorescence spectrometer (XRF)”.               | Workshop*                        | AC & RI, Madurai                      | 27.10.16 | -        |
| 18. | National seminar on “Innovative Technologies in Insect Science”.                                                               | National Seminar**               | Guru Nanak College, Chennai           | 14.10.16 | -        |
| 19. | Webinar on Climate Smart Agriculture                                                                                           | National Conference*             | E Science Society (eSS)               | 14.09.16 | -        |
| 20. | New horizons, emerging challenges and recent paradigms in food mediated immunity and their role in human health and longevity. | International Conference*        | The American College, Madurai         | 31.08.16 | 01.09.16 |
| 21. | Recent Trends in Pest and Disease Management Strategies to Align with Environmental Protection                                 | Seminar**                        | APAC, Vellore                         | 12.07.16 | --       |
| 22. | National Institute of Agricultural Extension Management (MANAGE)                                                               | Training*                        | AC & ABC, VAPS Madurai                | 05.01.16 | 04.03.16 |

|     |                                                                                                               |                            |                                 |          |          |
|-----|---------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|----------|----------|
| 23. | Impact of climate risks on Agricultural and Horticultural productivity                                        | National Conference**      | TNAU, Coimbatore                | 13.05.15 | 14.05.15 |
| 24. | National expo on Assemblage of Innovative ideas / work of post graduate agricultural research scholars        | National Expo**            | AC & RI, Madurai                | 27.03.15 | --       |
| 25. | International conference on innovative insect management approaches for sustainable agro eco-system (IIMASAE) | International Conference** | AC & RI, Madurai                | 27.01.15 | 30.01.15 |
| 26. | Extension Training Programme on Organic Farming                                                               | Training*                  | AC & RI, Madurai                | 26.11.14 | 27.11.14 |
| 27. | National Seminar on Algae for sustainable agricultural production                                             | Seminar*                   | AC & RI, Madurai                | 29.09.14 | 30.09.14 |
| 28. | Sustainable agriculture to FUEL (Feed, Unite, Educate & Lead) the future                                      | National Conference**      | TNAU, Coimbatore                | 06.05.14 | 07.05.14 |
| 29. | Emerging Technology in Processing and value addition millets for better utilization                           | National Workshop**        | HC & RI, Madurai                | 13.03.14 | 14.03.14 |
| 30. | Emerging trends in ecofriendly Insect Pest management                                                         | Symposium**                | TNAU, Coimbatore                | 22.01.14 | 24.01.14 |
| 31. | Recent advances in Bio-inoculants technology                                                                  | Symposium*                 | AC & RI, Madurai                | 01.03.12 | 02.03.12 |
| 32. | Soft Skill Enrichment Cell (SSEC)                                                                             | Training*                  | PAJANCOA & RI, Karaikal         | 2010     | 2011     |
| 33. | Agro-Based Industrial Training                                                                                | Training*                  | PONLAIT, Puducherry             | 30.08.10 | 08.09.10 |
| 34. | Business and Career Prospects in Food Processing                                                              | Workshop cum Training*     | IICPT and PAJANCOA&RI, Karaikal | 25.08.10 | ---      |

\*Attended (National: 18; International: 04)

\*\* Attended & Presented (National: 08; International: 03)

@Resource Person (National: 01)

### **Thesis Work**

|        |   |                                                                                                                         |      |
|--------|---|-------------------------------------------------------------------------------------------------------------------------|------|
| Ph. D. | : | Kairomones and Silicon mediated IPM module for the management of major pests of groundnut ( <i>Arachis hypogaea</i> L.) | 2016 |
| M. Sc. | : | Evaluation of bio-efficacy of Emamectin benzoate 5 WG against Lepidopteran pests of Okra and Cabbage                    | 2013 |
| B. Sc. | : | Production and marketing efficiency of vegetable growers of Karaikal District                                           | 2011 |

### Research Projects (Ongoing/Completed)

|            |                        |                                                                                                                                                  |            |            |
|------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| *2024-2026 | Principal Investigator | Exploring silica-loaded biopolymers for insect-resistant packaging                                                                               | CSIR       | 12.0 Lakh  |
| *2024-2026 | Team Member            | Design and development of a grain storage system with a pushing force mechanism for the prevention of insect infestation in stored food products | CSIR-CFTRI | 3.0 Lakh   |
| 2024-2025  | Team Member            | Millet sustaining through Research and Innovation by Analysis of Nutrients and Nutraceuticals                                                    | CSIR       | 66.08 Lakh |

\*Ongoing

### Additional Responsibilities

|                                   |            |            |
|-----------------------------------|------------|------------|
| ✓ Lab in-charge                   | 29.08.2016 | 23.01.2018 |
| ✓ Residential Tutor               | 29.08.2016 | 23.01.2018 |
| ✓ NSS Assistant Programme Officer | 30.08.2016 | 31.12.2016 |
| ✓ Farm Manager                    | 20.09.2016 | 23.01.2018 |
| ✓ Ward Counselor                  | 23.09.2016 | 23.01.2018 |
| ✓ NSS Programme Officer           | 01.01.2017 | 23.01.2018 |

### List of Courses Handled

|         |                                                          |                   |            |            |
|---------|----------------------------------------------------------|-------------------|------------|------------|
| APW 401 | Project Work (0+4)                                       | IV B.Sc. (Agri.)  | 14.08.2017 | 22.01.2018 |
| AEN 301 | Pests of Field Crops and their Management (1+1)          | III B.Sc. (Agri.) | 11.09.2017 | 11.01.2018 |
| AEN 301 | Pests of Field Crops and their Management (2+1)          | III B.Sc. (Agri.) | 08.02.2017 | 24.07.2017 |
| AEN 311 | Pest Management in Horticulture Production Systems (2+1) | III B.Sc. (Hort.) | 09.02.2017 | 19.07.2017 |
| HOR 403 | Project Work (0+4)                                       | IV B.Sc. (Hort.)  | 29.08.2016 | 25.05.2017 |
| APW 401 | Project Work (0+4)                                       | IV B.Sc. (Agri.)  | 29.08.2016 | 25.05.2017 |
| AEN 201 | Fundamentals of Entomology (2+1)                         | II B.Sc. (Hort.)  | 29.08.2016 | 06.01.2017 |

### Contribution to Science

#### Research Articles

1. **Parthiban P.,** S. Baharani, T. Geetha, C.S. Vivek Babu, S. Ezil 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 Products Research, Elsevier.* Published in online. 112 (2025)

2. **Parthiban, P.,** C. Chinniah, R. K. Murali Baskaran, M. Kalyanasundaram, K. Suresh and S. Karthick. **2019.** Biochemical alternation and silicon accumulation in groundnut (*Arachis hypogaea* L.) in response to root and foliar application of two sources of silicon. *Phosphorus sulfur and silicon and the related elements*, **Taylor & Francis**. Published in online. (ISSN: 1042-6507). 194(9): 917-921. DOI: 10.1080/10426507.2019.1576679.
3. **Parthiban, P.,** C. Chinniah, R. K. Murali Baskaran, K. Suresh and A. Ravikumar. **2018.** Impact of Intercropping System to Minimise the Sucking Pests Incidence in Groundnut (*Arachis hypogaea* Linnaeus). *Legume Research*, 41 (5): 788-191. (ISSN: 0250-5371).
4. **Parthiban, P.,** C. Chinniah, R. K. Murali Baskaran, K. Suresh and S. Karthick. **2018.** Influence of Calcium Silicate Application on the Population of Sucking Pests of Groundnut (*Arachis hypogaea* L.). *Silicon*, **II**, 1687–1692. **Springer**. Published in online. (ISSN: 1876-990X). DOI: 10.1007/s12633-018-9988-8.
5. **Parthiban, P.,** C. Chinniah, R.K. Murali Baskaran, N. Muthukrishnan, D. S. Rajavel and K. S. Karthick. **2018.** Influence of calcium silicate application on the population of *Aproaerema modicella* Deventer (Lepidoptera: Gelechiidae) on groundnut. *Entomon* 43(4): 231-236. (ISSN: 0377-9335). <https://doi.org/10.33307/entomon.v43i4.403>.
6. **Parthiban, P.,** C. Chinniah, R. K. Murali Baskaran, K. Suresh and A. Ravikumar. **2018.** Positive influence of intercrops on natural enemies in groundnut eco-system. *International Journal of Research Studies in Zoology* 4 (2): 1-6. (ISSN: 2454-941X).
7. **Parthiban, P.,** C. Chinniah, R. K. M. Baskaran, D. S. Rajavel, K. Suresh and K. S. Karthick. **2018.** Phenylalanine Ammonia Lyase Activities in Groundnut (*Arachis hypogaea* L.) in Response to Root and Foliar Application of Two Sources of Silicon. *International Journal of Research Studies in Zoology* 4 (3): 12-16. (ISSN: 2454-941X).
8. **Parthiban, P.,** C. Chinniah, M. Kalyanasundaram and R. K. Murali Baskaran. **2017.** Kairomonal effect of Acetone extracts of Groundnut on foraging activities of *Trichogramma chilonis* Ishii and *Chrysoperla zastrowi sillemi* (Esben-Peterson). *Legume Research*, 40 (2): 393-396. (ISSN: 0250-5371).
9. Murali Baskaran, R. K. and **P. Parthiban**. **2017.** Non-host plant derived kairomone to enhance activity of natural enemies of lepidopteran pests of *Abelmoschus esculentus* (L.) Moench. *Journal of Entomology and Zoology Studies*, 5(2): 414-421. (ISSN: 2349-6800).
10. Suresh, K., R. K. Murali Baskaran, B. Usha Rani and **P. Parthiban**. **2017.** Efficacy of Abamectin 1.9 EC against Two Spotted Mite, *Tetranychus urticae* Koch (Acari: Tetranychidae) on Brinjal. *Pesticide Research Journal*, 29 (1): 18-22. (ISSN: 0970-6763).
11. **Parthiban, P.,** C. Chinniah, R.K.M. Baskaran, D.S. Rajavel, M. Kalyanasundaram and K. Suresh. **2017.** Influence of Silica nutrition on the population of natural enemies of groundnut (*Arachis hypogaea* L.). *Journal of Entomology and Zoology Studies*, 5(6): 2652-2655. (ISSN: 2349-6800).
12. Suresh, K., R. K. Murali Baskaran, B. Usha Rani and **P. Parthiban**. **2017.** Optimization of Field Dose of Abamectin 1.9 EC for the Management of *Polyphagotarsonemus latus* Banks and *Scirtothrips dorsalis* Hood Infesting *Capsicum annum*. *Pesticide Research Journal*, 29 (2): 158-162. (ISSN: 0970-6763).
13. Premalatha, K., C. Chinniah, A. Ravikumar, **P. Parthiban** and M. Kalyanasundaram. **2017.** Evaluation of essential plant oils against two spotted spider mite, *Tetranychus urticae* Koch in Tomato. *Annals of plant protection sciences*, 25 (1): 6-11. (ISSN: 0971-3573).
14. Chinniah, C., A. Ravikumar, M. Kalyanasundaram and **P. Parthiban**. **2017.** Field evaluation of eco-friendly IPM strategies against sucking pests in Chilli ecosystem. *Annals of plant protection sciences*, 25

(1): 36-41. (ISSN: 0971-3573).

15. **Parthiban, P.**, C. Chinniah, M. Kalyanasundaram and R. K. Murali Baskaran. **2017**. Enhancing *in vivo* foraging activities of *Trichogramma chilonis* Ishii and *Chrysoperla zastrowi sillemi* (Esben-Peterson) on eggs of *Spodoptera litura* (Fab.) through kairomonic activity of saturated hydrocarbons. *Indian Journal of Entomology*, 79(4): 516-520. (ISSN: 0367-8288).
16. **Parthiban, P.**, C. Chinniah, R. K. Murali Baskaran, M. Kalyanasundaram, K. Balakrishnan and M. Muthamilan. **2016**. Impact of intercropping system to minimize the pest incidence in groundnut. *International Journal of Agriculture Sciences*, 8(1): 944-946. (ISSN: 0975-3710).
17. Ravikumar, A., C. Chinniah, S. Manisegaran, S. Irulandi and **P. Parthiban**. **2016**. Effect of bio-rationals against the thrips, *Scirtothrips dorsalis* Hood and fruit borer, *Helicoverpa armigera* Hubner infesting chilli. *International Journal of Agriculture Sciences*, 8(12): 1150-1153. (ISSN: 0975-3710).
18. **Parthiban, P.**, C. Chinniah, R. K. Murali Baskaran and M. Kalyanasundaram. **2016**. Kairomonal Effect of Some Saturated Hydrocarbons and Their Influence on the Parasitic and Predatory Potential of *Trichogramma chilonis* and *Chrysoperla zastrowi sillemi*. *Biopesticides International*, 12(1): 61-68. (ISSN: 0973-483X).
19. **Parthiban, P.**, C. Chinniah, R. K. Murali Baskaran and A. Ravikumar. **2016**. Extracts of *Helicoverpa armigera* Increase Foraging Activities of *Trichogramma chilonis* and *Chrysoperla zastrowi sillemi* on Eggs of *Spodoptera litura*. *Biopesticides International*, 12(1): 69-75. (ISSN: 0973-483X).
20. Thangavel, K., R. K. Murali Baskaran and **P. Parthiban**. **2016**. Evaluation of toxicity of emamectin benzoate 5 wg to honey bees. *International Journal of Plant Sciences*, 11 (2): 000-000. (ISSN: 0973-1547).
21. **Parthiban, P.**, C. Chinniah, R.K. Murali Baskaran and K. Suresh. **2016**. Enhancing *in vivo* foraging activities of *Trichogramma chilonis* Ishii and *Chrysoperla zastrowi sillemi* (Esben-Peterson) on eggs of *Corcyra cephalonica* Stainton through kairomonic activity of *Helicoverpa armigera* (Hubner). *Entomon* 41(4): 299-304. (ISSN: 0377-9335).
22. **Parthiban, P.**, C. Chinniah and A. Ravikumar. **2016**. Kairomonal Effect of Acetone Extracts of *Pennisetum glaucum* (L.) and Their Influence on the Parasitic/ Predatory Potential of *Trichogramma chilonis* Ishii and *Chrysoperla zastrowi sillemi* (Esben-Peterson) against Eggs of *Spodoptera litura* (Fab.). *Madras Agricultural Journal*, 103 (7-9): 258-261. (ISSN: 0024-9602).
23. Poovizhiraja, B., C. Chinniah, A. Ravikumar and **P. Parthiban**. **2016**. Influence of Host Plants on the Biological Parameters of Two spotted spider Mite, *Tetranychus urticae* Koch.. *Madras Agricultural Journal*, 103 (7-9): 250-253. (ISSN: 0024-9602).
24. **Parthiban, P.**, C. Chinniah, M. Kalyanasundaram, and R. K. Murali Baskaran. **2016**. Kairomonal effect of acetone extracts of *Pennisetum glaucum* (L.) and predatory potential of *Trichogramma chilonis* Ishii and *Chrysoperla zastrowi sillemi* (Esben-Peterson). *Annals of Plant Protection Sciences*, 24(1): 13-17. (ISSN: 0971-3573).
25. **Parthiban, P.**, C. Chinniah, M. Kalyanasundaram, R. K. Murali Baskaran, C. Swaminathan and P. Kannan. **2016**. Influence of intercropping system to minimize the defoliators incidence in groundnut (*Arachis hypogaea* Linnaeus). *Annals of Plant Protection Sciences*, 24(1): 78-82. (ISSN: 0971-3573).
26. Chinniah, C., A. Ravikumar, M. Kalyanasundaram and **P. Parthiban**. **2016**. Management of sucking pests, by integration of organic sources of amendments and foliar application of entomopathogenic fungi on chilli. *Journal of Biopesticides*, 9(1): 34-40. (ISSN: 0974-391X).
27. Murali Baskaran, R. K., K. Suresh, B. Usha Rani and **P. Parthiban**. **2016**. Organic pest management of major insect pests of Ashwagandha, *Withania somnifera* Dunal. *Journal of Agricultural Science and*

28. Chinniah, C., A. Ravikumar, M. Kalyanasundaram and **P. Parthiban**. **2016**. Efficacy of newer acaricides and insecticide molecules against sucking pests of chilli. *Annals of plant protection sciences*, 24 (2): 202-207. (ISSN: 0971-3573).
29. Ravikumar, A., S. Manisegaran, C. Chinniah, S. Irulandi and **P. Parthiban**. **2016**. Evaluation of eco-friendly pest management modules against major pest of chilli (*Capsicum annuum* L.). *Annals of plant protection sciences*, 24 (2): 223-227. (ISSN: 0971-3573).
30. Chinniah, C., A. Ravikumar, M. Kalyanasundaram and **P. Parthiban**. **2016**. Effect of intercrops on the incidence of sucking pest complex of chilli. *Annals of plant protection sciences*, 24 (2): 228-231. (ISSN: 0971-3573).
31. Premalatha, K., C. Chinniah, A. Ravikumar and **P. Parthiban**. **2016**. Seasonal incidence and influence of weather factors on the population dynamics of two spotted spider mite, *Tetranychus urticae* Koch in Tomato eco-system. *Annals of plant protection sciences*, 24 (2): 232-235. (ISSN: 0971-3573).
32. Chinniah, C., A. Ravikumar, M. Kalyanasundaram and **P. Parthiban**. **2016**. Field evaluation of *Metarhizium anisopliae* liquid formulation (BioMagic®) against brown plant hopper, *Nilaparvata lugens* Stal on rice. *Journal of Biopesticides*, 9(2): 211- 219. (ISSN: 0974-391X).
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2. Murali-Baskaran, R.K., K. Sharma, P. Kaushala. J. Kumar, **P. Parthiban**, S. Senthil-Nathan and R. W. Mankin. **2018**. Role of kairomone in biological control of crop pests-A review. *Physiological and Molecular Plant Pathology*. **Elsevier**. 101: 3-15. (ISSN: 0885-5765). <https://doi.org/10.1016/j.pmpp.2017.07.004>.
3. Karthick, K. S., C. Chinniah, **P. Parthiban**, A. Ravikumar. **2018**. Prospects and challenges in Meliponiculture in India. *International Journal of Research Studies in Zoology* 4 (1): 29-38. (ISSN: 2454-941X).
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6. Karthick, K. S., **P. Parthiban**, C. Chinniah, K. Suresh and A. Ravikumar. **2016**. Sonification behaviour of insects. *E Journal of Agriculture Science*, 1(2): 36-54.
7. Rajesh, P., T. Ragavan, **P. Parthiban**, A. Sathishkumar and K. S. Karthick. **2016**. Polymers in production and protection agriculture: A review. *E Journal of Agriculture Science*, 2(1): 77-87.
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### **International Conference Papers**

1. **Parthiban, P.**, C. Chinniah, R.K. Murali Baskaran, K. Suresh and A. Ravikumar. **2018**. Positive influence of intercrops on Green lacewing, *C. zastrowi sillemi* in groundnut eco-system. International Conference on Biocontrol and Sustainable Insect Pest Management (ICBS). AC & RI, Killikulam. 186-188 pp (ISBN: 978-93-81102-46-6).
2. **Parthiban, P.**, R. K. Murali Baskaran, C. Chinniah and K. Thangavel. **2015**. Field evaluation of Emamectin benzoate 5 WG against spider predators in okra ecosystem. International conference on innovative insect management approaches for sustainable agro eco-system (IIMASAE). AC & RI, Madurai. 470–472 pp.
3. **Parthiban, P.**, R. K. Murali Baskaran, C. Chinniah and K. Thangavel. **2015**. Field evaluation of Emamectin benzoate 5 WG against coccinellid predators in cabbage ecosystem. International conference on innovative insect management approaches for sustainable agro eco-system (IIMASAE). AC & RI, Madurai. 517–519 pp.

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2. **Parthiban, P.**, R. K. Murali baskaran, C. Chinniah and K. Suresh. **2017**. Bioefficacy of Emamectin benzoate WG on bendi shoot and fruit borer. **In:** Poochiyal velanmai, Ed: S. Jayaprabhavathy, I. Merlin Kamala, P. Ananthi, A. Arunachalam, Thannambikkai Publications, Coimbatore, p. 116-118.
3. **Parthiban, P.**, R. K. Murali Baskaran, C. Chinniah and K. Thangavel. **2015**. Field evaluation of Emamectin benzoate 5 WG against larval parasitoid in cabbage ecosystem. Impact of climate risks on Agricultural and Horticultural productivity. TNAU, Coimbatore. 59–60 pp. (ISBN: 978-93-83799-21-3).
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### National Seminar Papers

1. **Parthiban, P.**, C. Chinniah, R. K. Murali Baskaran, K. Suresh and A. Ravikumar. **2016**. Enhancing *in vivo* foraging activities of *Trichogramma chilonis* Ishii and *Chrysoperla zastrowi sillemi* (Esben-Peterson) on eggs of *Spodoptera litura* (Fab.) through kairomonic activity of *Arachis hypogaea*. National seminar on “Innovative technologies in insect science”. Department of advanced zoology and biotechnology, Guru Nanak college & Entomology academy of India. 14<sup>th</sup> October, Chennai. 43p
2. Ravikumar, A., C. Chinniah, S. Manisegaran, S. Irulandi and **P. Parthiban**. **2016**. Field evaluation of certain bio-rationals for their efficacy against yellow mite, *Polyphagotarsonemus latus* Banks on chilli. National seminar on “Innovative technologies in insect science”. Department of advanced zoology and biotechnology, Guru Nanak college & Entomology academy of India. 14<sup>th</sup> October, Chennai. 44p
3. Karthick, K. S., M. Kandibane, **P. Parthiban** and A. Ravikumar. **2016**. Bio-efficacy of newer insecticides against the leaf folder, *Cnaphalocrosis medinalis* Guenee (Pyralidae: Lepidoptera) in rice. National seminar on “Innovative technologies in insect science”. Department of advanced zoology and biotechnology, Guru Nanak college & Entomology academy of India. 14<sup>th</sup> October, Chennai. 45p

### Symposium Papers

1. **Parthiban, P.**, R. K. Murali Baskaran, K. Thangavel and G. Sasikumar. **2014**. Acute toxicity of emamectin benzoate 5 WG for *Spodoptera litura* (Fab.) of cabbage. Emerging trends in ecofriendly Insect Pest management (ETEIPM). TNAU, Coimbatore. 373–375 pp. (ISBN: 93-81972-33-8)

### Workshop Papers

1. **Parthiban, P.**, K. Thangavel, P. Adiyaman and R. Surendar. **2014**. Development and standardization of cinnamon and garlic flavoured popped sorghum snacks. Emerging Technology in Processing and value addition millets for better utilization. AC & RI, Madurai. 52 p.
2. Thangavel, K., U. Sankarnarayanan, **P. Parthiban**, P. Adiyaman and G. Sasikumar. **2014**. Eco-friendly approaches for the management of rice weevil, (*Sitophilus oryzae*) in stored sorghum. Emerging Technology in Processing and value addition millets for better utilization. AC & RI, Madurai. 11 p.
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Processing and value addition millets for better utilization. AC & RI, Madurai. 106 p.

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2. **Parthiban, P.**, B. Rajendran, K. Sankari Meena, V. P. Mavilashaw and S. Nanthakumar. **2017**. Principles of Pest Management. Laser Park Publishing House, Coimbatore. 137 p. 9789384234850
3. **Parthiban, P.**, B. Rajendran, M. Muthukumar, S. Nanthakumar and A. Ravikumar. **2017**. Pests of Field Crops and their management. Laser Park Publishing House, Coimbatore. 232 p. 9789381102398
4. **Parthiban, P.**, R. K. Murali Baskaran and D. S. Rajavel. **2015**. Emamectin Benzoate 5 WG against lepidopteran pests of okra and cabbage. LAMBERT Academic publishing, Germany. 137 p. 978-3-659-23725-6

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2. **Parthiban, P.**, C. Chinniah, R. K. Murali Baskaran, K. Suresh and A. Ravikumar. **2016**. Kairomonal effect of *Spodoptera litura* Fab. and its influence on the parasitic and predatory potential of *Trichogramma chilonis* Ishii and *Chrysoperla zastrowi sillemi* (Esben-Peterson). (Recent trends in pest and disease management strategies to align with environmental protection: eds. S. Nanthakumar *et al.*) Today Publications, Bangalore. 73-76. 9789493991263
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6. Sankari Meena, K., **P. Parthiban** and T. Raguchander. **2016**. Nematicidal effect of plant growth promoting rhizobacteria on root knot nematode, *Meloidogyne incognita* in Carnation var. Red king. (Recent trends in pest and disease management strategies to align with environmental protection: eds. S. Nanthakumar *et al.*). Today Publications, Bangalore. 111-115. 9789493991263
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1. Vijayakumar, S., Dinesh Jinger, **P. Parthiban** and S. Lokesh. **2018**. Aerobic rice cultivation for enhanced water use efficiency. *Indian Farming*. 68(06): 03-06.
2. Thangavel, K., R. K. Murali Baskaran and **P. Parthiban**. **2017**. White stem borer, *Xylotrechus quadripes* management in coffee. *E Journal of Agriculture Science*. 1: 9-11.
3. Thangavel, K., K. Suresh and **P. Parthiban**. **2017**. Neem as a natural insecticide. *E Journal of Agriculture Science*. 2(2): 6-9.
4. **Parthiban, P.**, R. K. Murali Baskaran, C. Chinniah, S. Jayaraj and K. Thangavel. **2016**. Emamectin Benzoate. *E Journal of Agriculture Science*, 2(1): 106-109.
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7. Thangavel, K., R. K. Murali Baskaran and **P. Parthiban**. **2016**. Safety evaluation of Emamectin benzoate 5 WG against honeybees. Plant Protection, 118-122. (Tamil Conference).
8. **Parthiban, P.**, A. Ravikumar, C. Chinniah, K. Thangavel and S. Lokesh. **2016**. Biological control: An eco-friendly pest management approach. *e Journal of Agriculture Science*. 1: 17-21.

### **Popular Articles (Newspaper)**

1. Pest management in groundnut with utilizing intercrops. Friday October 31, **2014**. *The Hindu* (Tamil).

### **Popular Articles (Leaf lets)**

1. Amirthalingam, V., S. Lokesh, **P. Parthiban et al.**, **2011**. Redpalm Weevil Management.
2. Amirthalingam, V., S. Lokesh, **P. Parthiban et al.**, **2011**. Panchakavya.
3. Vijayakumar, S., R. Anburaja, S. Lokesh, **P. Parthiban** and A. Mohamed Asik. **2010**. Protray Nursery.
4. Vijayakumar, S., R. Anburaja, S. Lokesh, **P. Parthiban** and A. Mohamed Asik. **2010**.

5. Vijayakumar, S., R. Anburaja, S. Lokesh, **P. Parthiban** and A. Mohamed Asik. **2010.** Green Manure and Green Leaf Manure.
6. Vijayakumar, S., R. Anburaja, S. Lokesh, **P. Parthiban** and A. Mohamed Asik. **2010.** Bio Fertilizer Seed Treatment.

#### **Membership in Scientific Bodies**

|                                                           |             |      |
|-----------------------------------------------------------|-------------|------|
| 1. Association of Food Scientists & Technologists (AFSTI) | Life member | 2024 |
| 2. Indian Journal of Entomology                           | Life member | 2020 |
| 3. Genesis Urban and Rural Development Society            | Life member | 2018 |
| 4. Green Reap Welfare Society                             | Life member | 2017 |
| 5. Agricultural Scientific Tamil Society                  | Life member | 2017 |
| 6. Journal of Biological Control                          | Life member | 2017 |
| 7. Advances in Life Sciences                              | Life member | 2015 |
| 8. Trends in Biosciences                                  | Life member | 2015 |
| 9. Trends in Biotechnology and Biological Sciences        | Life member | 2015 |
| 10. International Journal of Agricultural Sciences        | Life member | 2015 |

#### **Reviewer in Journals**

|                                                                          |      |
|--------------------------------------------------------------------------|------|
| 1. Journal of Applied Entomology - <b>Wiley</b>                          | 2020 |
| 2. Journal of Soil Science and Plant Nutrition - <b>Springer Nature</b>  | 2020 |
| 3. Bulletin of the National Research Centre - <b>Springer Nature</b>     | 2020 |
| 4. Environmental Science and Pollution Research - <b>Springer Nature</b> | 2020 |
| 5. International Journal of Agricultural Sciences - Bio-info Publication | 2015 |

#### **Journal Covered by Publication**

1. Journal of Stored Products Research – **Elsevier\***
2. Pest Management Science - **John Wiley & Sons Ltd.\***
3. Silicon – **Springer\***
4. Physiological and Molecular Plant Pathology – **Elsevier\***
5. Phosphorus sulfur and silicon and the related elements - **Taylor & Francis\***
6. Legume Research\*
7. Indian Journal of Entomology
8. Entomon
9. Annals of Plant Protection Sciences
10. Pesticide Research Journal
11. Biopesticides International
12. The Bioscan
13. Madras Agricultural Journal
14. Journal of Biopesticides
15. International Journal of Research Studies in Zoology
16. Journal of Entomology and Zoology Studies
17. International Journal of Agriculture Sciences
18. International Journal of Plant Sciences
19. Journal of Agricultural Science and Practice

20. Research Journal of Agricultural Sciences
21. Life Sciences Leaflets
22. Trends in Biosciences
23. Journal of Innovative Agriculture
24. Current Biotica
25. E-Journal of Agriculture Science
26. Advances in Life Sciences

**\*SCI Journal**

**I acknowledge this to be a valid and current *Curriculum Vitae***

**Parthiban Packirisamy  
May 20, 2025**