

Dr. M. Ayyamperumal, M.Sc. (Ag.), Ph.D.

Contact - 91-8508637825

E-mail: sekarayyam@gmail.com

Area of interest / Specialization:

- Teaching, Research and Extension.
- Insect taxonomy, Integrated Pest Management and Biological control.

Experience:

- Research and Extension - **2 year 5 months**
- Teaching - **1 year 8 months**

Academic Profile:

| Qualification | Institution | Year of Passing | Percentage |
|---------------|---|-----------------|------------|
| NET | Agricultural Scientist Recruitment Board ICAR- New Delhi | 2018 | 52.89 |
| Ph.D. | Annamalai University, Chidambaram, Tamil Nadu, India. | 2020 | 90.01 |
| M.Sc., (Ag.) | | 2015 | 94 |
| B.Sc., (Ag.) | | 2013 | 83 |
| H.S.C | Govt. Boys Higher Secondary School, Edappadi, Salem | 2008 | 82 |
| S.S.L.C | Govt. High School, A.R.Chettipatti, Salem | 2006 | 66 |

Awards:

- Recipient of Vallalar Endowment Award -2014 for securing maximum marks during M. Sc. (Ag.)
- Recipient of University Research Studentship Award -2017-2018.
- Recipient of Young Scientist Award-2019 for Significant Contribution to Taxonomy of Hymenopteran Parasitoids.
- Recipient of Young Scientist Award-2020 for Significant Contribution in the field of Entomology.
- Recipient of InSc Young Achiever Award-2020 for publishing a research paper *Trechmites* Thompson (Hymenoptera: Encyrtidae): Description of three new species and additional distributional records from India in Transaction of **American Entomological society**.
- Recipient of Dr. APJ. Abdul Kalam Research Excellence Award-2021 from M.S. Swaminathan Research Foundation, CABI –platwise and **Pushkaram College of Agriculture Science, Pudukkottai**

Research Experiences:

- Diversity, host-parasitoid association and conservation of Encyrtid (Hymenoptera: Chalcidoidea) parasitoids” –Ph.D. research work.
- Taxonomy of Selected Genera of Aphelinid (Hymenoptera: Chalcidoidea) Parasitoids from India- M. Sc. (Ag) research work.
- Worked in the sponsored project “Bioefficacy, Phytotoxicity and residue data of Metribuzin 70% WP against sugarcane, wheat & soybean weeds”– part-time scheme work.
- Mass culturing of **parasitoids** (*Trichogramma chilonis*, *Trichogramma japonicum*, *Trichogramma pretiosum*), **predators** (*Chrysoperla zastrowi* Sillemi, *Rhynocoris marginatus*), **entomopathogens** (*Beauveria bassiana*, *Isaria fumosorosea*, *Metarhizium anisopliae*, *Metarhizium acridium*) and **Biocontrol agents** (*Trichoderma viride*, *Trichoderma harizanum*, *Pseudomonas fluorescens*); conducting **Farmer Field Schools(FFS)**; integrated pest management training programs to farmers in different crops.

New to science (new species described)

| S. No | Species name | Reference |
|--------------|---|---|
| 1 | <i>Umairiya chidambaramensis</i> Manickavasagam & Ayyamperumal | Manickavasagam, Menakadevi & Ayyamperumal , 2016 |
| 2 | <i>Psilocharis heratyi</i> Manickavasagam & Ayyamperumal | Ayyamperumal & Manickavasagam, 2016 |
| 3 | <i>Mymaromma heptafuniculatus</i> Manickavasagam & Ayyamperumal | Ayyamperumal & Manickavasagam, 2017 |
| 4 | <i>Mymaromma manipurens</i> Manickavasagam & Ayyamperumal | |
| 5 | <i>Mymaromma longipterus</i> Manickavasagam & Ayyamperumal | |
| 6 | <i>Mymaromma shivajiense</i> Manickavasagam & Ayyamperumal | |
| 7 | <i>Eugahania viraktamathi</i> Manickavasagam & Ayyamperumal. | Ayyamperumal & Manickavasagam, 2018 |
| 8 | <i>Eugahania chetnae</i> Manickavasagam & Ayyamperumal | |
| 9 | <i>Trechnites assamensis</i> Manickavasagam & Ayyamperumal | Ayyamperumal & Manickavasagam, 2018 |
| 10 | <i>Trechnites keralensis</i> Manickavasagam & Ayyamperumal | |
| 11 | <i>Trechnites montanus</i> Manickavasagam & Ayyamperumal | |
| 12 | <i>Caenohomalopoda shikokuensis</i> (Tachikawa) first | Ayyamperumal & |

| | | |
|----|---|--|
| | report from India | Manickavasagam, 2019 |
| 13 | <i>Zozoros noyesi</i> Manickavasagam & Ayyamperumal | Ayyamperumal & Manickavasagam, 2021 |

Publications: Book chapter:

- J. Gowriprakash., **M. Ayyamperumal** and S. Manickavasagam. 2018. Role of Biological control in Integrated Pest Management. Ed. Kannan, R. Vetri Publishers, Chennai. PP: 17-22. **(in Tamil)**.
- **M. Ayyamperumal**, P. Manikandan and K. Suguna. 2020. Conservation Biological Control (Cbc) - Tool For Natural Pest Control. *Organic Farming for Sustainable Agriculture*, Chapter – 17, Page: 198 - 211

Papers / articles published in International Journals:

1. **Ayyamperumal, M.** and S. Manickavasagam. 2016. Description of a new species of *Psilocharis* Hearty (Hymenoptera: Eucharitidae, Eucharitinae) from Tamil Nadu, India. *Oriental Insects*. 51(2): 1-8.
2. Kanagarajan, R., **M. Ayyamperumal** and K. Saravanan. 2016. Faunistic Survey of Chalcidoids (Chalcidoidea: Hymenoptera) in Tamil Nadu. *Biological Forum- An International Journal*. 8(1): 570-572.
3. **Ayyamperumal, M.** and S. Manickavasagam. 2017. Four new species of *Mymaromma* Girault (Hymenoptera: Mymarommatidae) from India with a key to Indian species. *Transactions of American Entomological Society*. 143 (3): 589-599.
4. **Ayyamperumal, M** and S. Manickavasagam. 2018. *Trechnites* Thomson: Description of Three new species (Hymenoptera: Encyrtidae) and additional distributional records from India. *Transaction of American Entomological society*. 144(3): 510-522.
5. **Ayyamperumal, M.** and S. Manickavasagam. 2018. *Paracoccus marginatus* Williams and Granara de Willink (Sternorrhyncha: Pseudococcidae) and it's parasitoids (Chalcidoidea: Encyrtidae) in Tamil Nadu and Puducherry. *Journal of Entomology and Zoology Studies*. 6(6): 378-380.
6. **Ayyamperumal, M.** and S. Manickavasagam. 2019. First report *Caenohomalopoda shikokuensis* (Tachikawa) (Hymenoptera: Encyrtidae) from India with other encyrtid distributional Records. *Munis journal of Entomology and Zoology*. 14(1):126-129.
7. Kanagarajan, R., **M. Ayyamperumal** and K. Saravanan. 2019. Survey of Mymarid Parasitoids (Chalcidoidea: Hymenoptera) In kolli hills, Tamil Nadu. *Plant Archives*. 19(1), 762-763.
8. **Ayyamperumal, M.** J. Mohan Kumar and K. Mahalalakshmi. 2019. *Phenococcus solenopsis* Tinsely (Hemiptera: Pseudococcidae) and it's parasitoid *Aenasius arizonensis* (Girault) (Hymenoptera: Encyrtidae) in Tamil Nadu. *Journal of Entomology and Zoology Studies*. 7 (4): 1032-1034.

9. **Ayyamperumal, M.**, S. Ajaykarthick and S. Manickavasagam, S. 2019. Diversity of Mealybug parasitoids (Hymenoptera: Chalcidoidea) from Tamil Nadu. *Innovative Farming*. 4(3):174-177.
10. Alfred Daniel, J., K. Ramaraju., S. Manickavasagam., H. Sankararaman., **M. Ayyamperumal** and J. Gowri Prakash. 2019. Diversity of Certain Chalcidoidea from three rice growing zones of Tamil Nadu, India, *Crop Research- An International Journal*, 54(3&4): 101-109.
11. Thinesh Kumar, N., **M. Ayyamperumal.**, P. Manikandan and N. Arulselvan. 2020. Seasonal abundance and diversity of mosquito in different ecosystems of Annamalainagar, Tamil Nadu. *Journal of Entomology and Zoology Studies*, 8(4): 505-508.
12. **Ayyamperumal, M.**, S. Gnanasambandan., M. Amutha and N. Sathyanarayana. 2020. New host report of a parasitoid *Anagyrus alami* Hayat (Hymenoptera: Encyrtidae) on *Phenacoccus solenopsis* Tinsley (Hemiptera: Pseudococcidae) from India. *Journal of Entomology and Zoology Studies*, 8 (5): 248-250.
13. **Ayyamperumal** and S. Manickavasagam. **2021.** *Zozoros* Noyes and Hayat (Hymenoptera: Encyrtidae): First report of genus and description of a new species from India, with a key to species. *Journal of Natural History*, 55(17-18): 1169-1175.
14. Elango, K., Aravind, A., Nelson, S.J. and **M.Ayyamperumal**. 2021. First report of the encyrtid parasitoid, *Copidosomyia ambiguous* (Subba Rao) Hymenoptera: Chalcidoidea: Encyrtidae) on *Mallada desjardinsi* (Navas) an indigenous predator of the rugose spiralling whitefly, *Aleurodicus rugioperculatus* Martin in India. *International Journal of Tropical Insect Science*. 2021. <https://doi.org/10.1007/s42690-021-00667-5>.
15. Thimmegowda P.R. , **M. Ayyamperumal**, S. Sivarama krishnan, S.N. Shivakumar, C. Elangovan, J. Raju, N. Vasu, R. Karunakaran, D.K. Nagaraju, Om Prakash Verma and J.P. Singh Current status of cassava mealybug, *Phenacoccus manihoti* Matile-Ferrero (Hemiptera: Pseudococcidae) and its indigenous natural enemies observed under field conditions in Namakkal district of Tamil Nadu, India *Insect Environment*. 25 (4) 508-521

Papers / articles published in National Journals:

1. Manickavasagam, S., C. Menakadevi and **M. Ayyamperumal**. 2016. Description of a new species of *Umairia* Hayat (Hymenoptera: Aphelinidae) with additional distribution records of aphelinids from India. *Journal of threatened taxa*. 8(6): 8893-8897.
2. **Ayyamperumal, M.** and S. Manickavasagam. 2018. Description of two New species of *Eugahania* Mercet (Hymenoptera: Encyrtidae) from India. *Journal of Insect Systematics*. 4(6): 90-97
3. Abhinav Kumar., **M. Ayyamperumal** and J. Gowri Prakash. 2019. Chalcidoid Fauna (Chalcidoidea: Hymenoptera) from southeastern Districts of Bihar, India, *Journal of Experimental Zoology*. 22(2): 1207-1211.

4. Ragul, R., Silambarasan, S.B and **M.Ayyamperumal**. 2020. Investigation on the effects of four different botanical seed extracts against cowpea aphid, *Aphis craccivora* Koch. under laboratory conditions. *INFOKARA Research journal*, 9(7): 13- 18.

Papers / articles published in Proceedings:

1. **Ayyamperumal M.**, and S. Manickavasagam. 2018. Diversity of Mealybug parasitoids (Hymenoptera: Chalcidoidea) from Tamil Nadu. *Proceedings of International Biodiversity Congress* (IBC 2018), Forest Research Institute, Dehradun, India: 4-6 October: volume IV:1-3.

Abstracts:

1. Manickavasagam, S & **M. Ayyamperumal**, 2018. Biodiversity of Mealybug parasitoids (Hymenoptera: Chalcidoidea). **International Biodiversity Congress** (IBC 2018), Forest Research Institute, Dehradun, India: 4-6 october: pp: 231.
2. Suguna, K & **M. Ayyamperumal**, 2019. “Effect of fermented leaf extracts against aphid *Aphis craccivora* F. (Aphididae: Hemiptera) on peanut. **Phytophorocon**, Department of Entomology, Annamalai University, Annamalainagar, Tamil Nadu. 3rd -4th January 2019.
3. **Ayyamperumal, M.**, S. Ajaykarthick & Manickavasagam, S **2019**. “Diversity of mealybug parasitoids (Hymenoptera: Chalcidoidea) from Tamil Nadu. **National conference on Challenges and Innovative Approaches in Agriculture & Allied Science Research:** at the **Biotic Science Congress, 2019**, held at, Tamil Nadu. 26th -27th July: pp.160.
4. **Ayyamperumal, M.**, R.K.Gokulakrishnaa & S. Gnanasambandan, **2019**. “Present status of Papaya mealybug parasitoids (Hymenoptera: Chalcidoidea). **National conference on climate smart agriculture for livelihood security: challenges and opportunities**, Anbil Dharmalingam Agricultural College and Research Institute, Tamil Nadu Agricultural University, Tiruchirappalli, Tamil Nadu. 13th -14th September: pp.220
5. **Ayyamperumal, M.**, S. Gnanasambandan., H. Sankararaman.& S. Manickavasagam. 2020. New host report of a parasitoid *Anagyrus alami* Hayat (Hymenoptera: Encyrtidae) from India. **International conference on: Recent trends in Agriculture towards Food security and Rural Livelihood**, All India Agricultural Students Association and Faculty of Agriculture Annamalai Univerity, Tamil Nadu. 3rd – 4th January. **145-146**.
6. **M. Ayyamperumal** and S.Manickavasagam. 2020. Aphelinid Fauna (Chalcidoidea: Hymenoptera) of Tamil Nadu, India. **International Web-Conference on New Trends in Agriculture, Environmental & Biological Sciences for Inclusive Development (NTAEBSID-2020)** organised by Agro Environmental Developmental Society. 21-22: June: 2020.

Conference and workshop:

- **International conference:** “Biodiversity of mealybug parasitoids (Hymenoptera: Chalcidoidea)” at the International Biodiversity Congress, held at **Forest Research Institute, Dehradun, Uttarakhand, India**. 4th–6th October 2018.
- **National: Workshop on Identification of fauna of Western Ghats, ZSI, Calicut.**
- **National conference on:** “Effect of fermented leaf extracts against aphid *Aphis craccivora* F. (Aphididae: Hemiptera) on peanut, at the **Phytopherocon 2019**, held at Department of Entomology, Annamalai University, Annamalainagar, Tamil Nadu. 3rd -4th January 2019.
- **National conference on Challenges and Innovative Approaches in Agriculture & Allied Science Research:** “Diversity of mealybug parasitoids (Hymenoptera: Chalcidoidea) from Tamil Nadu, at the **Biotic Science Congress, 2019**, held at, Tamil Nadu. 26th -27th July 2019.
- **National conference on climate smart agriculture for livelihood security: challenges and opportunities:** “Present status of Papaya mealybug parasitoids (Hymenoptera: Chalcidoidea), held at, Anbil Dharmalingam Agricultural College and Research Institute, Tamil Nadu Agricultural University, Tiruchirappalli, Tamil Nadu. 13th -14th September 2019.
- **National conference on Trends in Higher Education, Taxonomy, Agriculture, Biotechnology and Toxicology**, organized by the Dr. B. Vasantharaj David Foundation, Chennai 600125 on 17th November 2019 at Chennai, Tamil Nadu, India.
- **National seminar:** “Science and Technology for Insect Diversity Conservation and Agricultural progressive, at the **Indian Science Congress Association**, held at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu. 29th July 2019.
- **National conference and Award Ceremony on Innovations in Science, Agriculture and adaptation to Climate Changes.** “First report of Fortuitous Biological Control agents of new invasive pest, Cassava mealybug, *Phenacoccus manihoti* Matile-Ferrero from India” held at **Pushkaram College of Agriculture Science, Pudukkottai, Tamil Nadu. 28th April 2021.**
- **One day faculty development program on** “Achieving Publication Index Scores and Succeeding Research Projects”. Annamalai University, Annamalainagar.
- **One day faculty development program on** “Basic Analytical Techniques for Researchers”, held at Annamalai University, Annamalainagar.
- **One day training programme on Coconut as Business- Cococnus**, conducted by Annamalai University and **Coconut Development Board, Kochi** .
- Attended Ferras Academy of Training For Excellence for personal improvement.

Membership:

- Life member of Agro Environmental Development Society (AEDS) from 21.06.2020.
- Life member of Institute of Scholars (InSc).

Online courses:

- Completed eight week online course on **Integrated Pest Management (IPM)** in Agriculture: Massive Open Online Courses (agMOOCs).
- Completed five-days online training on **‘Pesticide Application Techniques and Safety. Measures’** organized at **NIPHM**-National Institute of Plant Health Management, Hyderabad from 01st to 05th June, 2020.
- Completed Five-days online training on **‘Production Protocol for Predators and Parasitoids’** organized at **NIPHM**-National Institute of Plant Health Management, Hyderabad from 20th to 24th July, 2020.

Computer Literacy:

- Completed online course on Microsoft Excel-learn MS EXCEL for DATA Analysis in May 2020.

Personal profile:

- **Address** : 4/166, Vatrapalayam, Okkilippatti post, Sangagiri taluk, Salem - 637107.
- **Father’s name** : A. Mani
- **Date of Birth** : 02 June 1990
- **Nationality** : Indian
- **Languages** : Tamil & English (Read & write)

Place: Vedasandur

Date: 08-08-2023