

CURRICULUM VITAE

Dr. Shashikala M

Scientist-B (Agricultural Entomology) at Silkworm division

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EDUCATION:

| Degree | Subject | University/ Institution | Year |
|--------|-------------------------|---|------|
| B.Sc. | Agriculture | University of Agricultural Sciences, GKVK, Bengaluru, Karnataka. | 2019 |
| M.Sc. | Agricultural Entomology | Govind Ballabh Pant university of Agriculture and Technology Pantanagar, Uttarakhand. | 2021 |
| Ph.D. | Agricultural Entomology | ICAR- Indian Agricultural Research Institute, New Delhi. | 2025 |

AREA OF RESEARCH:

- Ph.D. Thesis titled “**Biology, feeding potential, semiochemistry and insecticidal safety evaluation of *Apertochrysa astur* Banks (Neuroptera: Chrysopidae)**”.
- M.Sc. Thesis titled “**Compatibility of *Bacillus thuringiensis* with insecticides against *Helicoverpa armigera* infesting chickpea**”.

REWARDS AND RECOGNITION:

1. Awarded **ASRB/ICAR-NET-2021** in Agricultural Entomology
2. Awarded **Best M.Sc. Thesis Award** on the occasion of “**1st International Agriculture Conference on Natural VS Organic Farming :In Context To Bharatiya Agriculture**” organised by Gujarat Natural Farming and Science University, Anand and Hindusthan Agricultural Research Welfare Society and IIMTU, Meerut
3. Awarded **Young Entomologist Award** from Vigyan Varta An International E-Magazine for Science Enthusiasts

Languages Known: Kannada, English, Hindi and Telugu

ARTICLE PUBLISHED:

1. **Shashikala, M.**, Gaur, N., Purwar, J. P., and Jayanth, B. V. (2023). Compatibility of *Bacillus thuringiensis* (Berliner) with insecticides against *Helicoverpa armigera* (Hübner) infesting chickpea. *Journal of Experimental Zoology India*, 26(2), 2493-2497.
2. **Shashikala, M.**, Jayanth, B. V., Vireesha, P., Rajareddy, G., Lakshmi, K. S. I. and Rajarushi, C. N. (2024). In vitro compatibility assessment of *Bacillus thuringiensis* with commonly used insecticides. *Plant Archives*, 25(1), 3042-3046.
3. **Shashikala, M.**, Jayanth, B. V., Saw, G., Rajareddy, G., Udaykumar, E., and Paul, B. (2025). Host plant–herbivore–predator interaction effects and projection estimates of *Apertochrysa astur* Banks reared on *Aphis gossypii* Glover. *Journal of Plant Diseases and Protection*, 132(3), 1-19.
4. **Shashikala, M.**, Jayanth, B. V., Rajareddy, G., Udaykumar, E., Saw, G., & Paul, B. (2025). Assessing the biocontrol potential of *Apertochrysa astur* Banks (Neuroptera: Chrysopidae) against aphids using life table, predation and projection analyses. *Crop Protection*, 197, 107292.
5. Jayanth, B. V., **Shashikala, M.**, Rajareddy, G., Udaykumar, E., Saw, G., & Paul, B. (2025). Host plant-mediated trophic dynamics influence life table parameters and predation of *Geocoris ochropterus* Fieber in a tritrophic system. *Crop Protection*, 193, 107186.
6. Jayanth, B. V., **Shashikala, M.**, Rajarushi, C. N., Nandhini, D., Rajareddy, G., Udaykumar, E., .. & Paul, B. (2025). Morpho-molecular characterization of the generalist predator, big-eyed bug *Geocoris ochropterus* Fieber (Hemiptera: Geocoridae), for effective identification in agroecosystems. *Journal of Plant Diseases and Protection*, 132(2), 77.
7. Jayanth, B. V., **Shashikala M.**, Lakshmi, K. S., Rajareddy, G., Udaykumar, E., & Paul, B. (2025). Life history traits and feeding efficiency of generalist predator, *Geocoris ochropterus* Fieber against *Spodoptera frugiperda* (JE Smith) with stage-specific estimates of its population and predation rates. *Phytoparasitica*, 53(3), 1-17.
8. Jayanth, B. V., Padmasri, A., Azam, M. M., Rajarushi, C. N., Maheswari, T. U., **Shashikala, M.**, ... & Rajareddy, G. (2024). Entomotoxic potential of paddy husk silica powders against *Callosobruchus chinensis* (L.)(Coleoptera: Bruchidae) in stored chickpea. *Crop Protection*, 184, 106873.

BOOKS:

1. Gundreddy, R. R., Reddy, B. T., **Shashikala, M.** and Jayanth, B. V. (2024). *From Bugs to Bucks; Insect Farming's role in Sustainable Agriculture and Economic Growth*, Bhumi Publishing, ISBN: 9789395847513.

BOOK CHAPTERS:

1. **Shashikala, M.**, Reddy, G. R., Aarthi, H. P., and Sridhar, M. R. (2022). Scope of drone technology in integrated pest management. In: *Agriculture Science: Research and Review*. Volume XI, (1): 66- 77, Bhumi Publishing, India.
2. **Shashikala, M. and** Aarthi, H. P. (2023). Use of entomopathogens as endophytes and its role in IPM. In: *Recent trends in Agriculture science*. Volume 33, 19-35, Akinik Publications.
3. Aarthi, H. P., **Shashikala, M.** and Ramya, A. R. (2023). Behavioural and Physiological response of insects against microbial pest control strategies. Volume 33, 3-15, Akinik Publications.
4. Jayanth, B. V., **Shashikala, M.**, Chaitanya, M. S. and Reddy, G. R. (2023). Edible insects as sustainable food source. In: *Research and Reviews in Agriculture Science* Volume I, 47- 67, Bhumi Publishing, India.

POPULAR ARTICLE:

1. **Shashikala M** (2022). Screening Techniques for Insect Resistance. *Vigyan Varta*, 3(6), 118-120.
2. Shashikala M, Rakesh V, and Archana Anokhe (2022). Artificial Diets and Rearing Techniques of *Spodoptera frugiperda* (J.E. Smith), 3(8), 26-28.
3. Rakesh V., **Shashikala M.**, and Archana Anokhe (2022). Artificial Diets and Rearing Techniques of Mealybugs. *AgriCos e-Newsletter*, 3(8), 55-62.
4. Aarthi Helen P and Shashikala M (2022). Artificial Diet and Rearing Techniques of Pink Bollworm. *Vigyan Varta*, 3(7), 147-150.

5. **Shashikala, M.**, Jayanth, B. V., Padmasri, A., Lakshmi, K. S. I., Vireesha, P. and Sridhara, M. R. (2024). Agronomic strategies for the conservation of natural enemies: Implications for sustainable pest management in agricultural systems. *Vigyan Varta*, 5(11), 263-265.

TRAINING PROGRAMMES ATTENDED:

- Completed “**Induction Training Programme**” for Central Silk Board Scientists – 2025, conducted by the Ministry of Textiles, Government of India.
- Participated in the training programme on Hands on Training on the “**Advance Methods for Testing of Quality Parameters of Biopesticides**”.
- Participated in the 3rd National Symposium “**Entomology 2022: Innovation and Entrepreneurship**” held at Hyderabad.
- Participated in the National Training Program on “**Modern techniques for characterization of Bacterial endophytes and its application in agriculture**”.
- Participated in the training programme on “**Production Protocol for Natural Enemies of Insect Pests**”.
- Successfully completed an Eight week online Course titled “**Integrated Pest Management**” through agMOOCs platform.