

Dr. Neena Lenin

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Department of Entomology,
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Summary

My main area of research is in the biological control of insects and noninsect pests of crops. I also have expertise in the field of identification and management of phytophagous as well as predatory mites. Other areas of my expertise include DNA barcoding, sample collection, rearing of different life stages of insects and mites, and Pest Risk Analysis. Currently, attached to the Department, mainly focused on teaching and extension.

Research Highlights

Experience

- Started the career in 2016 as Assistant Plant Protection Officer at the Directorate of Plant Protection, Quarantine and Storage, Faridabad.
 - Later in 2020, joined the Department of Agriculture Development and Farmers Welfare, Thiruvananthapuram, and have been working as an Agricultural Officer.
 - Joined KAU as Assistant Professor in August 2021
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Education

- Graduated in Agricultural Science from Kerala Agricultural University (2009)
 - Post Graduation in Agricultural Entomology from Kerala Agricultural University (2011)
 - Ph.D in Agricultural Entomology from Kerala Agricultural University (2017)
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Area of Specialization

Acarology, biological control of pests, molecular taxonomy, Pest Risk Analysis

Awards & Recognitions

- a) Senior Research Fellow of ICAR
- b) Maulana Azad National Fellowship of UGC for pursuing Ph. D

- c) Won the best oral presentation award in the national symposium on “Emerging trends in Eco-friendly Insect Pest Management” during Jan 2014 at Coimbatore

Research Projects

Ongoing

Publications

Journal Articles

- 1.P. Sreeja., Lenin. N., Bhaskar.H., Chellappan, M. and Bahskar, D. 2023. Record of *Onomarchus uninotatus* (Serville, 1838) (Orthoptera, Tettigoniidae) as a pest of jackfruit from Kerala, India. *Entomon* 48(1): 95-98.
2. Lenin, N. and Bhaskar. H. 2019. Efficacy of *Neoseiulus longispinosus* (Evans) (Mesostigmata: Phytoseiidae) for the management of *Tetranychus urticae* Koch (Prostigmata: Tetranychidae) on cucumber under protected cultivation. *J. Biol. Control* 33(1) 48-52
2. Lenin, N. and Bhaskar, H. 2018.Comparitive biology of *Tetranychus urticae* Koch (Prostigmata: Tetranychidae) and its native predator, *Neoseiulus longispinosus* (Evans) (Mesostigmata: Phytoseiidae) on cucumber. Abstract Book, XV International Congress of Acarology. September 2-8, 2018. Antalya, Turkey,188p.
3. Lenin. N. and Bhaskar. H. 2016. Mite pests of vegetable crops under protected cultivation in Kerala. *Entomon* 41(3): 305-308.
4. Lenin. N., Bhaskar. H., Abida. P. S. and Mathew. P. M. 2015. Molecular approach in species determination of *Tetranychus* complex in polyhouse cucumber. *Genome* 58(5): 244.
5. Lenin. N., Bhaskar. H., Abida. P. S. and Mathew. P. M. 2015. DNA barcoding of Tetranychids species complex in polyhouse cucumber. (GenBank submission accession numbers - KT782744 and KT782745)

Popular Articles

1. Lenin. N. 2024. Keedaniyanthranathile Nalla Krishi Murakal. Kerala Karshakan. 69: 02, 24- 27.
2. Lenin. N., Ummer, Najitha and Jasna V. K. 2023. Dragon fruit cultivation in Kerala : Plant Protection Challenges. Kerala Karshakan (English). 11: 06, 44-48
3. Aswin. T., Lenin. N. and Bhaskar. H. 2015. Novel insecticides - a boon to pest management. *Agrobios Newsletter* XIV(3): 83.

4. Ummer. N. and Lenin. N. 2015. Mating behavior in insects. Agrobios News letter XIV (5):98.
5. Maheswary. J., Lenin. N. and Bhaskar. H. 2015. Insect songs - Acoustic cues for communication. Agrobios News letter XIV (5):99.
6. Lenin. N., Maheswary. J. and Bhaskar. H. 2015. Infochemicals in plant - mite interactions. Agrobios News letter XIV (6):99.
7. Lenin. N., Aswin. T. and Bhaskar. H. 2015. Eusociality - zenith of insect evolution ?? Agrobios News letter XIV(7): 99.
8. Lenin. N., and Ummer, N. 2015. Giant African Snail menace in crops. Agrobios News letter XIV(7): 99.
9. Lenin. N., and Ummer, N. 2015. Altruism in insects. Agrobios News letter XIV(7): 99.

Books/Chapters in Books

1. Hebsy Bai and Neena Lenin. 2011. Techniques in Biological Control. Published by Kerala Agricultural University, Kerala .16 p.
2. Hebsy Bai and Neena Lenin., P. 2010. Jaiveeka keedaniyanthrana upadhikal. Published by Kerala Agricultural University, Kerala. 8 p.
3. Haseena Bhaskar and Neena Lenin. 2022. Emerging mite pests of Kerala Published by Kerala Agricultural University, Kerala. 82pp

Student Guidance (Major Advisor/ Advisory Committee member)

M. Sc.

Within KAU: 7 (ongoing)

Completed : 1

Ph. D

Outside KAU : 1 (Ongoing)

Other Institutional Responsibilities

1. Assistant PG Academic Officer
2. Co- coordinator of Class teachers group

Membership in Professional Associations

1. Annual membership in the Association for Advancement of Entomology

