

Dr. Nasiya Beegum A. N.

Assistant Professor

Department of Entomology

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Summary

My main area of research is in the biological control of insect pests. I also have expertise in crop production, protection, and processing technology for cashew. Other areas of my expertise include formulation of biocontrol agents, DNA barcoding, sample collection, rearing of different life stages of insects, Pest forecasting, and Pest Risk Analysis. Currently, attached to the Department, mainly focused on teaching and extension.

Research Highlights

- Morphological and biochemical bases of resistance against the spotted pod borer, *Maruca vitrata*, evaluated
- Characterized, evaluated, and formulated native stain of *Beauveria bassiana* against rice bug

Experience

- Started the career in 2020, as an Agricultural Officer in the Department of Agriculture Development and Farmers Welfare
- Joined KAU as Assistant Professor in September 2021

Education

- Graduated in Agricultural Science from Kerala Agricultural University (2013)
- Post Graduation in Agricultural Entomology from Kerala Agricultural University (2015)
- Ph.D in Agricultural Entomology from Kerala Agricultural University (2021)

Area of Specialization

Biological control of insect pests, Host plant resistance

Awards & Recognitions

- a) Maulana Azad National Fellowship of UGC for pursuing Ph.D.
- b) Won the best oral presentation award in the International Symposium on Horticulture: Priorities and Trends during September 2017 at Bangalore
- c) Received the Insect Environmentalist Award for the Best Insect Photography (Senior Category) 2022

Publications

Journal Articles : 9

- Menon, M. V. Jalaja, S., Asna, A. C. Nasiya-Beegum, A. N., Alex, T. A. Long term effect of soil nutrient management on composition and structure of weed community in a cashew plantation. Indian Society of Weed Science. (2023) 55(3): 319–323
- Nasiya-Beegum, A. N. Subramanian, M. 2022. Isolation and Molecular Characterization of Entomopathogenic Fungus, *Beauveria bassiana* Isolated from Rice Bug, *Leptocorisa* spp. (Hemiptera : Alydidae). Environment and ecology. 40(3B) 1417—1421
- Jalaja S.Menon, Asna A.C., Meera V Menon, M. S. Smitha , A. N. Nasiya Beegum. 2022. Technology for commercial production of cashew sprouts, a traditional delicacy of Kerala.Journal of Tropical Agriculture 60(2): 227-234.
- Nasiya-Beegum, A. N. Subramanian, M. 2019. Compatibility of *Beauveria bassiana* strains with chemicals. Environment and ecology 37(4B): 1493-1496
- Nasiya-Beegum, A. N. Subramanian, M. 2019. Effect of trichomes in cowpea on infestation by spotted pod borer, *Maruca vitrata* (Fab.)(Lepidoptera: Crambidae). J. Hort. Sci.14(1):69-72
- Nasiya-Beegum, A. N. Subramanian, M. 2018. Effect of configuration of calyx in cowpea flowers on infestation by spotted pod borer, *Maruca vitrata* (Fab.)(Lepidoptera: Crambidae)J. Hort. Sci.13(2):209-212
- Nasiya-Beegum, A. N. Subramanian, M. 2018. Bases of resistance in cowpea against spotted pod borer, *Maruca vitrata* (Fab.) (Lepidoptera: Crambidae), Environment and ecology. 36(4A) 1185-1190
- Nasiya-Beegum, A. N. Subramanian, M. 2017. Screening for resistance in cowpea against spotted pod borer, *Maruca vitrata* (Fab.)(Lepidoptera: Crambidae). 35 (4B): 3185—3188
- Nasiya-Beegum, A. N. Subramanian, M. 2016. Effect of moisture content in cowpea pods on infestation by spotted pod borer, *Maruca vitrata* (Fab.)(Lepidoptera: Crambidae). In. J. Appl. Pure Sci. and Agri. 2: 90-94

Books : 5

- Dr. Jalaja S Menon, Dr. Asna A C, Dr. Smitha M.S. and Dr. Nasiya Beegum A.N. 2022. *Kanakavila Kasumavu* (Malayalam)- Kerala Agricultural University.
- Jalaja S. Menon, Meera V. Menon, Smitha M. S. Asna A.C., and Nasiya Beegum. 2021. Compendium on cashew research in Kerala. Kerala Agricultural University.

Proceedings : 2

Technical bulletins/Leaflets/Newsletters : 7

Popular Articles : 4

Student Guidance (Major Advisor/ Advisory Committee member)

M. Sc.: 2 (ongoing)