

Dr.Eman Abdelmaksoud

Lecturer of Economic Entomology



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Research Interests

- Insect Ecology and Integrated Pest Management (IPM)
- Black Soldier Fly (BSF) Bioconversion Systems
- Pesticide Residue Analysis and Environmental Safety
- Sustainable Waste Management & Circular Bioeconomy
- Insect–Microbe Interactions



Education

- Ph.D. in Agricultural Sciences (Economic Entomology), Ain Shams University, 2021
- M.Sc. in Agricultural Sciences (Economic Entomology), Ain Shams University, 2016
- B.Sc. in Agricultural Sciences (Entomology), Ain Shams University, 2010



Academic Positions

- Lecturer, Department of Plant Protection, Ain Shams University (2021–Present)
- Assistant Lecturer (2017–2021)
- Demonstrator (2011–2016)



Research Output

- Total Publications: 8
- Q1 Publications: 4
- H-index: 4

Selected Publications

- Abdelmaksoud, E.M. et al. (2026). Enhancing Chicken Manure with Bread Waste and Black Soldier Fly Associated Bacteria to Increase Larval Biomass. Scientific Reports.
- Abdelmaksoud, E.M. et al. (2026). Valorization of chicken manure with bread waste, yeast and *Spirulina platensis* to enhance black soldier fly larval performance. Waste Management.
- Abdelmaksoud, E.M. et al. (2026). Genome-wide identification and expression analysis of SLC2 gene family in *Spodoptera frugiperda*. BMC Genomics.
- Abdelmaksoud, E.M. et al. (2023). Residue assessment of pesticides in strawberry fruits under field conditions.



Research Projects & Supervision

- Supervision of 3 M.Sc. theses (Entomology, Biochemistry)
- Active research in: Bioconversion of organic waste using BSF larvae, Impact of pesticides on insect physiology and gene expression, Sustainable pest control strategies using natural compounds



Awards & Honors

- She Leads: Digital Education Excellence Award (2026)
- International Publication Awards (Ain Shams University)



Teaching Experience

Participation in teaching practical and applied courses including:

1. General Entomology
2. Economic Entomology
3. Insect Ecology
4. Stored Product Pests
5. Integrated Pest Management
6. Medical and Veterinary Entomology



Academic & Administrative Activities

- Member, Quality Assurance Committee
- Academic Advisor, Plant Protection Program
- Program Coordinator (2021–2023)
- Vice Head of Examination Control Unit (2024–Present)
- Member, Egyptian Society of Integrated Pest Management



Conferences

- Ain Shams University Scientific Conferences (2022–2026)
- Egyptian Society of IPM International Conference (Research Presentation)



Training & Certifications

- AI for Researchers: Leapspace & Elsevier Policies (2026)
- Training of Trainers (TOT)
- Egyptian Knowledge Bank Workshop
- Artificial Intelligence in Scientific Research Workshop



Ongoing Research

- Pesticide effects on fall armyworm and cotton leafworm (biochemical & gene expression studies)
- Evaluation of spray technologies on pest populations
- Use of methyl benzoate derivatives for pest control
- Conversion of BSF frass into compost tea and its environmental applications



Technical Skills

- Statistical Analysis: SPSS, R, CoStat
- Data Visualization: SigmaPlot
- Microsoft Office (Word, Excel, PowerPoint, Azure fundamentals)
- Experimental Design & Data Analysis



Languages

- Arabic: Native
- English: Very Good