



Dr. Esam Elghadi

MSc, Insect Molecular Biology
PhD, Applied Biology

Director of the National Project for Integrated Fruit Flies Management

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Academic Platforms



Dr. Esam Elghadi currently works as a researcher at Libyan Biotechnology Research Center (LBTRC), acting as a Director of National Project for Integrated Fruit Flies Management at LCBTR Tripoli, Libya. Dr. Elghadi is also the coordinator of two projects in cooperation with International Atomic and Energy Agent (Supporting Control of Fruit Flies by Establishing a low Fruit Fly Prevalence Zone in Libya (National Project Number: LIB5014 2020-2023) and (Enhancing Capacity for Detection, Surveillance and Suppression of Exotic and Established Fruit Fly Species through Integration of Sterile Insect Technique with Other Suppression Methods (Regional Project Number: RAF 5074)).

- Dr. Elghadi has good technical skills including insect, fungi and bacteria DNA extraction, PCR, isolation and identification of entomopathogenic fungi from soil and infected insects

Research Interests

Integrated pest management, biological control, entomopathogenic fungi, insect and microbiology molecular biology, sterile insect technique, sex pheromones and attracts through trapping system and botanicals as biological tools.

Training courses

- Use of radioactive isotopes in the control of agricultural pests. Arabic Atomic and Energy Agent. (17-20/ 10/ 2022).
- Mass- rearing and quality control of genetic sexing strain of the Medfly *Ceratitis capitata*. Austria. 2018.
- Using the molecular and biology in the insect pest control's field, Naples- Italy. 2004-2005.

Publications

- 1- ELGHADI, E.O.; Port, G.R. Horizontal transmission and persistence of *Metarhizium anisopliae* in *Dacus frontalis* (Becker) and the effect of the fungus infection on fly reproduction, in **Proceedings of the 2nd International Electronic Conference on Entomology, 19–21 May 2025**, MDPI: Basel, Switzerland, doi: <https://sciforum.net/paper/view/22815>
- 2- ELGHADI, Esam Enhancing Capacity for Detection, Surveillance and Suppression of Exotic and Established Fruit Fly Species in Libya **AFRA Exhibition during the 66th Annual Session of the IAEA General Conference. September 2022.**
- 3- ELGHADI, Esam; PORT, Gordon. Use of entomopathogenic fungi for the biological control of the greater melon fly *Dacus frontalis* in Libya. **In: Area-Wide Management of Fruit Fly Pests. CRC Press, 2019. p. 251-265.**
- 4- A NEW BIOTECHNOLOGICAL TOOL TO PRODUCE TRANSGENIC INSECTS OF ECONOMICAL IMPORTANCE SUCH AS CERATITIS CAPITATA, A WELL KNOWN AGRICULTURAL PEST / Salvemini, Marco; Saccone, Giuseppe; Milano, A.; Mauro, U.; El Ghadi, E.; Polito, Catello. - STAMPA. - (2005), pp. 19-19. (Intervento presentato al convegno . **International Congress “Biotechnology Havana 2005 – For a sustainable food production” tenutosi a L'Avana Cuba nel 27 Novembre-2 Dicembre 2005**). <https://www.iris.unina.it/handle/11588/10903>