

# Curriculum Vitae



## • Personal information

- Name. Esam Elghadi
- Date of birth. 14/12/1974
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## • Education

- PhD in the field of biological control for insects 2016, Biology school, Newcastle University, United Kingdom.
- MSc Agricultural sciences 2005, Faculty of Agriculture, University of Naples Federico II, Naples, Italy.
- B.Sc. Plant protection 1998, Department of plant protection, Faculty of Agriculture, Tripoli University, Tripoli/Libya.

## • Professional Experience

- 2001 to Present. A researcher at Libyan Biotechnology Research Center (LBTRC)
- 2001- 2006. Member of biological control group at (LBTRC)
- 2019 to present the director of National Project for Integrated Fruit Flies Management at (LBTRC)
- 2020 – 2022. Project Coordinator of Supporting Control of Fruit Flies by Establishing a low Fruit Fly Prevalence Zone in Libya. Cooperation with International Atomic and Energy Agent. Project number: LIB5014
- 2017 to 2020 Project Coordinator of The Regional Fruit Fly Project (Enhancing Capacity for Detection, Surveillance and Suppression of Exotic and Established Fruit Fly Species through Integration of Sterile Insect Technique with Other Suppression Methods . Project number: RAF 5074.
- 2025 - Head of the Patent Registration Committee at the Libyan Center for Biological Research
- 2025- Head of the Liaison Committee between the Libyan Center for Biological Research and the Libyan Energy Corporation

## • Research Interests

Integrated Pest Management, Biological Control, Entomopathogenic fungi, Insect and microbiology molecular biology, Sterile Insect Technique, genetic sexing strain of fruit flies, use of sex pheromones and attracts through trapping system and botanicals as biological tools.

## • Other skills

- Languages: Arabic, English and limited Italian language.
- Technical Skills: Insect, fungi and bacteria DNA extraction, PCR, cloning, isolation and identification of entomopathogenic fungi from soil and infected insects.

## • 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 *Ceratitits capitata*. Austria. 2018.
- Using the molecular and biology in the insect pests control's field, Naples- Italy. 2004-2005.
- Using the sex pheromones and attracts in the insect pests control's field, Syria 2002.

- Radiation prevention. Nuclear Research Center Tripoli, Libya 5-15-2001.

• **Demonstration History**

- Microbiology 1 (practical class) Newcastle University, UK. 2011 and 2012
- Entomology (practical class) Newcastle University, UK. 2011 and 2012
- Cell biology (practical class) Newcastle University, UK. 2012
- Bioinformatics Computer Practical. Newcastle University, UK. 2012
- Molecular Biology and Genomics Computer Practical. Newcastle University, UK. 2012
- Insect Taxonomy (practical class) Newcastle University, UK. 2011.

• **Memberships**

- 2019 to 2022 Member of International Organization for Biological and Integrated control.
- 2019 to 2022 Libya representative in the integrated production, protection and biocontrol commission for North and African countries.

• **Conferences**

- Talks.  
Potential use of entomopathogenic fungi as a biological control against the greater melon fly *Dacus frontalis* (Becker). 10th International Symposium on Fruit Flies of Economic Importance Tapachula, Chiapas, Mexico April 23 – 27, 2018.

- **Posters.**

- 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.
- A new biotechnological tool to produce transgenic insects of economic importance such as *Ceratitidis capitata*, a well know agricultural pest. International Congress “Biotechnology Havana 2005 – For a sustainable food production” – Havana – Cuba, 27 Novembre-2 December 2005.
- Evaluation of the irrigation effect at the field capacity in controlling two species of fruit flies under the laboratory conditions. *In the sixth Biotechnology congress*, Mousrata. 21-23/ 4/2013.

• **Last Publications**

- 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>
- 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.**
- 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.**

**Newsletter**

- The Greater melon fly *Dacus frontalis* (Becker) and its management. Tripoli- Libya: *Biotechnology Research Center Newsletter*, pp. 1-40. 2003.
- Pheromones for monitoring the Mediterranean fruit fly *Ceratitidis capitata*.

Tripoli- Libya: *Biotechnology Research Center* **3**. 2004.

For more information, please see the following links:

[https://www.researchgate.net/profile/Esam-Elghadi?ev=hdr\\_xprf](https://www.researchgate.net/profile/Esam-Elghadi?ev=hdr_xprf)

<https://www.linkedin.com/feed/>

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