

## CURRICULUM VITAE

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Name: Mokhtar Farag El-Wakkad

Present Residence: Heliopolis, Cairo, Egypt

Mailing address: 47 Giza St., Heliopolis, Cairo, 11351 Egypt

Place of birth: Cairo

Date of birth: 15/05/1964

Present Nationality: Egyptian

Telephone: O: (+202) 37486163 ext.. 109

H: (+202) 26069016

M: (+20100) 3024703

E-mail address: [elwakkad@hotmail.com](mailto:elwakkad@hotmail.com)

Sex: male

Marital Status: Married

Languages: Arabic and English

Professional fields of expertise:

- Plant Protection
- Research and Development
- Project Analysis and Evaluation
- Education, Extension and Training

Computer Skills:

Most of Microsoft Office tools: Word, Excel and Power Point - MSTAT – MICROSTAT –  
ArcView Explorer for GIS

Education:

- Cairo University, Faculty of Science: 1999 – 2007 Ph.D. Entomology (Control)
  - Thesis Title
    - *Ecologica and Taxonomical Studies on Thrips in Some Horticultural Fields.*
  - Externally evaluated By:
    - Prof. Dr. B.A. McPheron, University of Pennsylvania, USA.
    - Prof. Dr. M.J. Samways, Stellenbosch University, SA.
- Cairo University, Faculty of Science: 1996 – 1998 M.Sc. Entomology (Control)



- Thesis Title
  - *Studies on Some Thrips Species of Citrus and Their Control.*
- Externally evaluated By:
  - Prof. Dr. J. Morse, University of California, USA.
- Cairo University, Faculty of Science: 1994 – 1996 Qualifying degree of M.Sc. Entomology (Control)
- Al-Azhar University, Faculty of Science: 1984 – 1988 B.Sc. Entomology (General)

#### Employment History:

1- From June 2007 to At present

Title: Assistant Research Professor

Name and address of employer: Plant Protection Research Institute

Type of business: Research work, Control fruit flies, Pesticides evaluation and Share in lecturing and training.

#### Description of the duties:

- Research work on fruit flies and most of fruit pests.
- Evaluation of pesticides against fruit flies, Peach Fruit Fly (PFF) Mediterranean Fruit Fly (MFF) and Olive Fly (OF).
- Monitoring and control fruit flies in Egypt using Males Annihilation Technique (MAT) and Baits spray Application Technique (BAT).
- Sharing in Teaching Program on fruit IPM.
- Sharing in extension work for farmers and extension employees.
- Training the agricultural administrative staff on controlling PFF and MFF.
- Research work on olive fly in North Sinai.
- Research work on physical treatments (cooling and hot vapour) for disinfestation of fruit flies immature stages.
- Research work on thrips in difference fields.

2- From 2/8/2011 to 4/8/2011

Title: Expert

Name and address of employer: African Union, Inter-African Phytosanitary Council

Type of business: Expert to Training workshop on the reclassification and Improving Integrated Pest Management (IPM) for fruit flies control in Western Africa.

Description of the duties:

- Prepare and presenting a specific presentation on the topic: *"Integrated Pest Management (IPM) of fruit flies and the new Approaches of Pest control"* within the framework of the development of the sub regional control strategies, against the introduction and spread of insects pests; and the popularization of safe and sustainable plants protection technique, the Inter-African Phytosanitary Council and Gambia government are organized in Banjul-Gambia.

3- From 14/12/2009 to 19/12/2009

Title: Expert

Name and address of employer: African Union, Inter-African Phytosanitary Council

Type of business: Expert to Training workshop on the reclassification and Improving Integrated Pest Management (IPM) for fruit flies control in Central and North Africa.

Description of the duties:

- Prepare and presenting a specific presentation on the topic: *"Methods of fruit flies control"* within the framework of the development of the sub regional control strategies, against the introduction and spread of insects pests; and the popularization of safe and sustainable plants protection technique.

4- From January 2007 to September 2007

Title: Executive/ Technical Manager of National Area-Wide Peach Fruit Fly Eradication Program

Name and address of employer: Plant Protection Research Institute

Type of business: Applied control of peach fruit flies, lecturing and training.

Description of the duties:

- In charge for managing all items of the project and applying the project action plan in the country.
- Responsible for the success of the project.
- Collaborate in between the project items and project members.
- Having weekly meeting with area managers, IT/GIS manager, MAT production lab manager, laboratory manager, assistant managers of public relations, training, financial & administrative affairs to discuss collected data.
- Having biweekly meeting with the Chairman of the broad and discuss the project situation and the its needs.

- Responsible for data exchange with other ministries or other countries.
- Responsible for the project web page.
- Contact with other ministries affairs to cooperate the project with any other plans may assist the project.
- Attend and approve tenders to supply materials and equipments for the project.

5- From 2003 to 2007

Title: Researcher

Name and address of employer: Plant Protection Research Institute

Type of business: Research work, Control fruit flies, Pesticides evaluation and Share in lecturing

Description of the duties:

- Research work on fruit flies and most of fruit pests.
- Evaluation of pesticides against fruit flies (MFF and PFF).
- Monitoring and control fruit flies in Egypt using MAT and BAT.
- Sharing in teaching program on fruit IPM.
- Sharing in extension work for farmers and extension employee.
- Training the agricultural administrative staff on controlling PFF and MFF.
- Research work on thrips in difference fields.
- Research work on cooling treatment to control immature stages of fruit flies.
- Assist FAO/IAEA Mission in training administrative staff in North Sinai, South Sinai and Kalubia on the sampling procedures and control methods of PFF Using MAT and BAT.

6- From 23/08/2004 to 02/09/2004

Title: Consultant (Fruit Flies Identification Expert)

Name of Employer: Food and Agriculture Organization of the United Nations (FAO), Regional Office for the Near East (RNE), Cairo, Egypt

Duty Station: Cairo, Egypt

Type of Business: Consultant to Training Workshop of the project TCP/RAB/2902

Description of the duties:

- Assist in the preparation of the report of the Final Regional Workshop and submit it in electronic form to RNER through the Regional Project Coordinator.
- Assist in finalizing the Project's Final Statement/Report.

- Select different varieties of freshly harvested healthy fruits, prepare them for infestation then, expose separately fruit groups to MFF and PFF.
- Incubate fruits after 24 hours of direct exposure to insects under conditions of 25°C and relative humidity 75%.
- Reserve the larvae and dissection it to separate the mouth parts, anterior and the anal spiracles which discriminate between the two species; then mount parts onto microscopic slides to facilitate differentiation between the two insect larvae.
- Provide to each participant a summary which includes the illustration plates and photographs to prelude the microscopic examination of slides. Also, a set of microscopic slides that clarify the differentiation between insect larvae.
- Present and attending lecture and laboratory time during the Final Regional Workshop on PFF (Cairo, Egypt) to discuss the identification of larvae and adults of principal fruit flies with a laboratory demonstration.

7- From 12/07/2003 to 31/07/2003

Title: Consultant (Peach Fruit Fly Management Expert)

Name of Employer: Food and Agriculture Organization of the United Nations (FAO),  
Regional Office for the Near East (RNE), Cairo, Egypt

Duty Station: Cairo, Egypt

Type of Business: Consultant to Training Workshop of the project TCP/RAB/2902

Description of the duties:

- Review the current surveillance and management programme of PFF, in relation to major areas of fruit production in the region.
- Assist the implementation of specific quarantine measures to be implemented, in order to prevent the establishment of PFF, in the non-infested countries in the Middle East and North Africa (ME & NA).
- Prepare national and regional strategies to assess the distribution of the PFF, set-up effective area wide MAT control programme in selected areas, and to establish emergency response units in the concerned countries.
- Review equipment, material and supply priorities, specifications and sourcing.
- Assess the technical implementation of field activities (PFF surveillance, management and quarantine measures in the concerned countries).
- Assist in developing and conducting training programs in the regional workshop.

- Assist in the preparation of teaching materials to cover training programme and pertinent aspects of PFF ecology, biology and management (e.g. life cycle, hosts, identification, trapping systems and procedures, distribution and movement).
- Prepare a mission report with recommendations to national project counterparts and submit it to Food and Agriculture Organization of the United Nations, Regional Office for the Near East (FAO/RNE) (Cairo).

8- From 1999 to 2003:

Title: Assistant Researcher

Name of Employer: Plant Protection Research Institute

Type of Business: Research work, IPM of fruit flies, Share in Lectures and Training

Description of the duties:

- Research work on fruit flies and most fruit pests.
- Evaluation of pesticides against fruit flies, MFF and PFF.
- Monitoring and control fruit flies in Egypt using MAT and BAT.
- Sharing in Teaching Program on fruit IPM and extension work for farmers
- Training the agricultural administrative staff on controlling PFF and MFF.
- Research work on thrips in different fields.
- Research work on cold treatment to control immature stages of fruit flies.
- In charge for data and control of PFF in North Sinal.

9- From 1992 to 1999

Title: Research Assistant

Name of Employer: Plant Protection Research Institute

Type of Business: Research work, IPM of fruit flies

Description of the duties:

- Research work on fruit flies and most fruit pests.
- Evaluation of pesticides against fruit flies (PFF and MFF).
- Rearing Mediterranean Fruit Fly in laboratory.
- Evaluating some pesticides against Citrus Leaf Miner (CLM).
- Research work on thrips in different fields.

10- From 1994 to 1995

Title: Research Scholar

Name of Employer: Citrus Research and Education Center, Lake Alfred, FL., University of Florida, USA

Duty Station: CREC, Lake Alfred, FL., USA

Type of Business: Research work, Thrips control and Pesticide Evaluation.

Description of the duties:

- Research work on thrips in different fields.
- Sampling thrips, inspection, slides mounting and identification to species.
- Evaluation of pesticides against thrips in citrus fields.
- Assist in controlling CLM and Broad mites.

Projects:

- Principal Investigator of Project Titled " Evaluation of Some Pesticides Against Fruit Flies, Fruit Worms and Leaf Miner in Nubaria" Funded by Plant Protection Research Institute (2009).
- Principal Investigator of Project Titled " Establishment a Foundation Information on Olive Fly Using GIS as a Preliminary Studies Requesting a Management Project in North Sinai" Funded by International Atomic Energy Agency (IAEA) (2009-2010).
- Principal Investigator of Project " Evaluation of Some Pesticides Against Fruit Flies in Nubaria" Funded by Plant Protection Research Institute (2010).
- Principal Investigator of Project " Evaluation of Some Pesticides Against Fruit Flies in Sharkia" Funded by Plant Protection Research Institute (2012-2014).

Training courses outside the country:

- Training Course in Florida, USA, on thrips (sampling, slide mounting, identification and control) 1994.
- Work at University of Florida, USA, in Citrus Research and Education Center, Lake Alfred FL., USA, 1994-1995.
- Training Course in China on Plant Protection at South China Agriculture University, China, 2000.

- Workshop on GIS and ArcView Explorer at International Atomic Energy Agency (IAEA) in Vienna, Austria, 2001.
- Training Fellowship at Agricultural Research Council, Infrutec – Nietrodrblij Stellenbosch, South Africa, on Sterile Insect Technique (SIT), 2004.
- Fellowship at the International Institute for Geo Information Science and Earth Observation, Enschede, Netherlands, on GIS fundamentals, 2008.
- Sharing in experiment concerning the disinfestation of fruit flies immature stages in citrus fruits using the cold storage. Vienna, Austria, 2011.
- FAO Training of Trainers on the inventory and safeguarding of obsolete pesticides. Izmir, Turkey, 2011.

#### Membership:

- Entomological Society of Egypt.
- Entomological Society of America.
- Egyptian Journal of Applied Sciences, Zagazig University.
- Al-Azhar Journal for Agricultural Science, Research Sector.
- Journal of Egyptian German Society of Zoology.
- Egyptian Journal of Agricultural Sciences, Mansoura University
- Agricultural Research Review.
- Journal of Agricultural Research.

#### Significant Publications:

- Hallman, G.J., S. W. Myers, M. F. El-Wakkad, M. D. Tadrous, and A. J. Jessup. (2013). Development of Phytosanitary Cold Treatments for Oranges Infested with *Bactrocera invadens* and *B. zonata* (Diptera: Tephritidae) by Comparison with Existing Cold Treatment Schedules for *Ceratitidis capitata* (Diptera: Tephritidae). J. Econ. Entomol. 106(4): 1608-1612
- El-Wakkad, M.F. and S.M.A. Mohamed (2009). Estimation of Infestation Rates of Mediterranean and Peach Fruit Flies in Some Governorates of Egypt. Egypt. J. of Appl. Sci., 24(11), 247-285.



- Mohamed, S.M.A. and M.F. El-Wakkad (2009). Cold Storage as Disinfestation Treatment Against the Peach Fruit Fly, *Bactrocera zonata* (Saunders), (Diptera: Tephritidae) on Valencia Orange. *Egypt. J. of Appl. Sci.*, 24(9), 290-301.
- Mohamed, S.M.A. and M.F. El-Wakkad (2008). Virulence and Efficacy of Certain Steinernematid and Heterorhabditid Nematodes Against two Strains of Mediterranean Fruit Fly, *Ceratitis capitata* (Wied.) (Diptera: Tephritidae) Under Laboratory Conditions. *Al-Azhar J. Agric. Sci. Sector Res.* (5), 159-168.
- Mohamed, S.M.A. and M.F. El-Wakkad (2008). Foraging Behavior of Certain Species of Heterorhabditid and Steinernematid Nematodes for the Mediterranean Fruit Fly, *Ceratitis capitata* (Wiedemann), (Diptera: Tephritidae). *Al-Azhar J. Agric. Sci. Sector Res.* (5), 145-157.
- Mohamed, S.M.A. and M.F. El-Wakkad (2003). The Role of Killing Bags on the Reduction of Peach Fruit Fly in Horticultural Orchards. *J. Egypt. Ger. Zool.*, (42E), 11-19.
- Hashem, A.G.; N.A. Soliman and M.F. El-Wakkad (2002). Effect of Cooling Treatments on the Development of Fruit Fly *Ceratitis capitata* (Wiedemann) (Diptera: Tephritidae). *Egyptian Journal of Agricultural Sciences, Mansoura University*, 27(1), 603-612.
- Hashem, A.G.; S.M.A. Mohamed and M.F. El-Wakkad (2001). Diversity and Abundance of Mediterranean and Peach Fruit Flies (Diptera: Tephritidae) in Horticultural Orchards. *Egyptian Journal of Applied Sciences, Zagazig University*, 16(1), 303-314.
- Childers, C.C. and M.F. El-Wakkad (1994). *Chaetanaphothrips orchidii*, its Occurrence, Damage to Maturing Fruit and Control on Red Grapefruit in Florida. *Proceeding of the Annual Meeting of Entomol. Soc. Am.* DSP0382: 9 pp.