

CURRICULUM VITAE

Dr. Ashraf Oukasha Abd EL-Latif
Associate Professor (Insect Physiology), Faculty of
Agriculture, Sohag University

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Citizenships: Egyptian

Date of Birth: 9th November, 1978

Current Address: Division of Plant Protection, Faculty of Agriculture, Sohag University,
Sohag, Egypt.

Education:

- **Ph.D. Degree** (2006-2009). Division of Entomology, Indian Agricultural Research Institute, New Delhi, India. (**Studies on pyrethroid resistance in different populations of *Helicoverpa armigera* (Hübner) with special reference to esterase and mono-oxygenase activity.**)

- **Msc. Degree** (2000-2004). Department of Plant Protection, Faculty of Agriculture, Assiut University, Egypt. (**Studies on the red-striped soft scale insect, *Pulvinaria tenuivalvata* (Newstead) infesting sugarcane in Upper Egypt.**)

- **B.Sc. Degree** (1995-1999). Department of Plant Protection, Faculty of Agriculture, Assiut University, Egypt.

Work History and Teaching Experience:

- **2015- till now** – Associate Professor, Department of Plant Protection, Faculty of Agriculture, Sohag University, Egypt.

- **2010-2015.** Lecturer, Department of Plant Protection, Faculty of Agriculture, Sohag University, Egypt.

-**2004-2009.** Lecturer Assistant, Department of Plant Protection, Faculty of Agriculture, Sohag University, Egypt.



- **2000-2004.** Demonstrator, Department of Plant Protection, Faculty of Agriculture, Sohag University, Egypt.

***Course Leader of the Following courses:**

- Principle of Economic Entomology (Undergraduate level)
- Insect Physiology (Postgraduate Level)
- Advanced Insect Physiology (Postgraduate Level)
- Insect Biochemistry (Postgraduate Level)
- Insect Pheromones and Hormones (Postgraduate Level)
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Skills and training programs:

- Chromatography, GC, HPLC

- DNA and RNA isolation, PCR, Real time PCR, ELISA, Spectrophotometer, Gel Electrophoresis, Protein estimation and purification, Esterases and monooxygenases assays.
- Circular Electron Microscopy Training Program (Technique and Interpretation), South Valley Univ. 2002.

Awards:

- Sohag University Incentive Award in Agriculture and Veterinary Medicine, 2014

-TWAS-DBT fellowship for PhD studies, 2006, sponsored by The Academy of Science for Developing World (TWAS), Italy and Department of Biotechnology, Ministry of Science, India.

Memberships:

- Managing Editor of Journal of Sohag Agriscience (JSAS).**
- Editor of Journal of Agri-Food and Applied Sciences**
- Editor of the Global journal of multidisciplinary and applied sciences**
- Editor of the International Journal of Farming and Allied Sciences**
- Member of the Arab Society of Plant Protection, Syria**
- Member of the Entomological Society of Egypt, Cairo, Egypt.**

Projects:

- **Principal Investigator** of the Project No. 26601 “**Effect of the joint insecticidal action of plant peptidase and amylase inhibitors and natural Cry3Aa toxin of *Bacillus thuringiensis* on the larvae of three species of beetle pests.**”. Funded by Egypt - Russia Joint Cooperation Call (STDF - ERJCG). 2017-2019
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- **Principal Investigator** of the Project No. 2997 “ **Studies on the Inhibitors of Insect Gut Proteases from Certain Egyptian Pulses and Cereal Germplasm**”. Funded by The Academy of Science and Technology Development Fund(Young Research Grant). 2011-2014
- **Co-Principal Investigator** of the project “ **Evaluation of certain pesticides on sugarcane pests in Upper Egypt**” Funded by the Egyptian Ministry of Agriculture. 2011-2014.

Seminars:

- Regulation of Pheromone Production: Hormonal Aspects. Division of Entomology, IARI., 29th Feb. 2008
- Role of Entomology in Forensic Science. Division of Entomology, IARI., 15th Feb. 2008.
- Heat tolerance by crop plants. Division of Biochemistry, IARI., 20th Oct. 2007.
- Advances in Molecular Detection of Plant Viruses. Division of Plant Pathology, IARI., 6th Oct. 2007

Book Chapters:

Abd El-latif, A. O. and B. Subrahmanyam. **2010.** Insect resistance to pyrethroid with special reference to the cotton bollworm. In: *Pests and Pathogens: Management Strategies*. (Ed. Vudem D. R., Poduri, N. R. and Khareedu V.R.). BS Publications, ISBN: 978-81-7800.

Subrahmanyam, B., **A. O. Abd EL-Latif** and H. Kesava Kumar. **2009.** Perspectives of global climate change and physiological adaptation by insects. In: *IPM Strategies to Combat Emerging Pests in the Current Scenario of Climate Change* (Eds. Ramamurthy, V.V., G.P. Gupta and S.N. Puri). Proceeding of the National Symposium on IPM Strategies to Combat Emerging in the Current Scenario of

Climate Change held at College of Horticulture and Forestry, Central Agricultural University, Pasighat 791002 Aurnachal Pradesh, January 28-30, 2009.

Publications :

- Elpidina, E. N., T. A. Smirnova, E. A. Dvoryakova, Y. E. Dunaevsky, M. A. M. A. .Belozersky, M. V. Serebryakova, E. V. Klyachko, **A. O. Abd El-latif**, B. Oppert, I. Y.Filippova. 2019. Direct detection of cysteine peptidases for MALDI-TOF MS analysis using fluorogenic substrates. *Analytical Biochemistry*, 567: 45-50.
- Toughan, M. M., A. A. A. Sallam, **A. O. Abd El-Latif**. 2017. Pyrethroid Resistance and Its Mechanism in Field Populations of the Sand Termite, *Psammotermes hypostoma* Desneux. *International Journal of Bioengineering and Life Science*, :11 (10): 699-704.
- Trang, T.T.K., **A. O. Abd El-latif**, V.G. Malathi and Debjani Dey. 2016. ITS sequence as barcode for identifying closely related species of *Chelonus blackburni* Cameron, and *Apanteles angaleti* Mueseback, a biocontrol agent of cotton ecosystem. *Journal of Sohag Agri-Science*, 1(1): 1-8
- El-Latif, A. O. 2015. Bio-potency of serine proteinase inhibitors from Cowpea (*Vigna unguiculata*) seeds on digestive proteinases and the development of *Spodoptera littoralis* (Boisduval). *Archive of Insect Biochemistry and Physiology*. 89 (1): 1-17.
- Abd El-Latif, A. O. 2015. Isolation and purification of a papain inhibitor from Egyptian genotypes of barley seeds and its *in vitro* and *in vivo* effects on the cowpea bruchid, *Callosobruchus maculatus* (F.). *Pesticide Biochemistry and Physiology*. 118: 26-32.
- Abd El-Latif, A. O. 2015. Purification and characterization of a serine protease inhibitor from Egyptian varieties of soybean seeds and its efficacy against *Spodoptera littoralis*. *Journal of Plant Protection Research*.. 55(1): 16-25.
- Abd El-Latif, A. O. 2014. *In vivo* and *in vitro* inhibition of *Spodoptera littoralis* gut-serine protease by protease inhibitors isolated from maize and sorghum seeds. *Pesticide Biochemistry and Physiology*. 116: 40- 48.

- Abd El-latif, A. O. 2014. Biochemical characterization of the midgut serine proteases of the Egyptian cottonworm, *Spodoptera littoralis* (Boisduval) and their interactions with standard protease inhibitors. 2nd International Conference on Agricultural and Environment Engineering (ICAEE'14) Sept. 29-30, 2014 Phuket (Thailand).
- Abd El-Latif, A. O., K. R. Kranthi, S. Kranthi, A. Sarwar and B. Subrahmanyam. 2014. Overexpression of cytochrome P450 CYP6B7 mediated pyrethroid resistance in Indian strains of the cotton bollworm, *Helicoverpa armigera* (Hübner). *Journal of Plant Protection Research*. 54(30): 10-15
- Abd El-Latif, A. O., K. R. Kranthi, S. Kranthi, A. Sarwar and B. Subrahmanyam. 2014. Overexpression of cytochrome P450 CYP6B7 mediated pyrethroid resistance in Indian strains of the cotton bollworm, *Helicoverpa armigera* (Hübner). *Journal of Plant Protection Research*. 54(30): 10-15
- Sillam-Dussès, D., R. Hanus, A. O. Abd El-Latif, P. Jiroš, J. Krasulová, B. Kalinová, J. Cvačka, I. Valterová and J. Šobotník. 2011. Sex pheromone and trail pheromone of the sand termite *Psammotermes hybostoma* (Rhinotermitidae: Psammotermitinae). *Journal of Chemical Ecology* . **37**: 179-188.
- Abd El-latif, A. O. and B. Subrahmanyam. 2010.** Pyrethroid synergists suppress esterase-mediated resistance in Indian strains of the cotton bollworm, *Helicoverpa armigera* (Hübner). *Pesticide Biochemistry and Physiology*. **97**: 279–288.
- Abd EL-Latif, A.O. and B. Subrahmanyam. 2010.** Pyrethroid resistance and esterase activity in three strains of the cotton bollworm, *Helicoverpa armigera* (Hübner). *Pesticide Biochemistry and Physiology*. **96**:155–159.
- Abd El-latif, A. O. and B. Subrahmanyam.** Relative toxicity of synthetic pyrethroids against neonates of three strains of cotton bollworm, *Helicoverpa armigera* (Hübner). **2010.** *Pusa Agriscience Journal, IARI. (in Press)*.

Abd EL-Latif, A.O. 2009. Efficacy of the entomopathogenic fungus, *Aspergillus flavus* L. against the red-striped soft scale, *Pulvinaria tenuivalvata* (Newstead) on sugarcane in Egypt. The 5th International Conference on Biopesticide: Stakeholders' Perspectives, New Delhi, India, 26-30 April, 2009. P017.

Abd EL-Latif, A.O. 2003. Induction and termination of insect diapause. The First Conference of Post Graduate Students, Assuit University.13-14 April, 2003.

Darwish, Y.A.; S.H.Mannaa, **A.O. Abd EL-Latif** and A.M.A.Salman. **2004.** Impact of foraging ant exclusion on sugarcane infestation by the red-striped soft scale insect, *Pulvinaria tenuivalvata* (Newstead). Proceeding of the 4th Scientific Conference of Agriculture Science, Assuit, December, 2004., pp. 88-94.

Darwish, Y.A.; S.H.Mannaa, **A.O. Abd EL-Latif** and A.M.A.Salman. **2004.** Efficiency of the entomopathogenic fungus, *Aspergillus flavus* L. in reducing population of the red-striped soft scale insect, *Pulvinaria tenuivalvata* (Newstead) inhabiting leaves of the sugarcane plants in Upper Egypt. Proceeding of the 4th Scientific Conference of Agriculture Science, Assuit, December, 2004., pp.39-43.

Darwish, Y.A.; S.H.Mannaa, **A.O. Abd EL-Latif** and A.M.A.Salman. **2004.** Effect of different infestation levels by the red-striped soft scale insect, *Pulvinaria tenuivalvata* (Newstead) inhabiting leaves of the sugarcane plants. Proceeding of the 4th Scientific Conference of Agriculture Science, Assuit, December, 2004., pp. 95-100.

Mannaa, S.H.; Y.A. Darwish, **A.O. Abd EL-Latif** and A.M.A.Salman. **2004.** Efficiency of certain chemical compound in reducing population of the red-striped soft scale insect, *Pulvinaria tenuivalvata* (Newstead) inhabiting leaves of the sugarcane plants in Upper Egypt. Proceeding of the 4th Scientific Conference of Agriculture Science, Assuit, December, 2004., pp. 44-50.

Mannaa, S.H.; Y.A. Darwish, **A.O. Abd EL-Latif** and A.M.A.Salman. **2004.** Effect of potassium fertilization on the population size of the red-striped soft scale insect, *Pulvinaria tenuivalvata* (Newstead) inhabiting leaves of the sugarcane plants.

Proceeding of the 4th Scientific Conference of Agriculture Science, Assuit,
December, 2004., pp. 101-107.