

## Curriculum Vitae

<b><u>1- Personal Details:</u></b>	
<b>Name</b>	El-Sayed Abdel-Malek El-Sheikh
<b>Date of birth</b>	September 14, 1973
<b>Marital Status</b>	Married
<b>Sex</b>	Male
<b>Current job</b>	<i>Associate Prof. of Pesticides Biotechnology and Toxicology</i> Plant Protection Department, Faculty of Agriculture Zagazig University, Egypt Telephone: +20-100 076 5569 Fax : +20 55 228 7567
<b>E-mails</b>	<a href="mailto:eaelsheikh@zu.edu.eg">eaelsheikh@zu.edu.eg</a> or <a href="mailto:eaelsheikh@yahoo.com">eaelsheikh@yahoo.com</a>
<b><u>2- Summary of Qualifications:</u></b>	
<ul style="list-style-type: none"><li>▪ The degree of bachelor in agricultural sciences (Pesticides) in June, 1996, Faculty of Agriculture, Zagazig University.</li><li>▪ The degree of Master in agricultural sciences (Pesticide Toxicology) in October, 2001, Faculty of Agriculture, Zagazig University.</li><li>▪ The degree of Philosophy Doctor in agricultural sciences (Pesticides Biotechnology and Toxicology) in March, 2006, Faculty of Agriculture, Zagazig University.</li></ul>	

### **3- Awards received and grants:**

- **Visiting Professor** in Entomology Department and Cancer research Center – Pesticide Biotechnology laboratory, UC Davis, California, USA, 2014.
- **Visiting scholar** in Entomology Department and Cancer research Center - UC Davis, California, USA, 2011.
- **Research scholar** in Missouri University – Biological control of insect research laboratory, Agriculture research service, USDA, 2010.
- Received “**Certificate of Recognition**” from University of California, Davis, for working in USA as J1 Visiting Scientist, with University of California Davis, July, 2008.
- **Junior Specialist Position**, Entomology Department and Cancer research Center - UC Davis, USA, 2008.
- **Post-Doc Fellowship** in Entomology Department and Cancer research Center - UC Davis, funded from Ministry of Higher Education and Scientific Research, Egypt, 2007.
- **Ph.D. Scholarship**, Ministry of Higher Education and Scientific Research, Egypt, 2003.
- Many years awarded for **international publications** from Zagazig University.
- **State (Country) prize of encouragement** in Agricultural Sciences, 2014.

### **4- Membership of Professional Association and International Journals:**

- **Reviewer** in International Journal of Environmental Engineering (IJEE).
- **Reviewer** in Journal of Stored Products and Post-harvest Research.
- **Reviewer** in International Journal of Anatomy and Physiology.
- **Reviewer** in Environmental Science and Pollution Research.

- **Reviewer** in Romanian Biotechnological Letters (RBL).
- **Reviewer** in African journal of microbiology research.
- **Reviewer** in Journal of Entomology and Nematology.
- **Reviewer** in African journal of agricultural research.
- **Reviewer** in Journal of Medicinal Plant Research.
- **Reviewer** in African journal of biotechnology.
- **Reviewer** in Journal of Insect Physiology.
- **Reviewer** in Pest Management Science.
- **Reviewer** in Pharmaceutical Biology.
- **Reviewer** in Biopesticides Journal.
- **Reviewer** in Chemosphere.
- **Member** in the *Society of Chemical Industry* (membership #72765).
- **Member** in the *Egyptian Society of Biological Pest Control*.
- **Member** in the *Egyptian Society of Entomology*.
- **Editorial Board** of *Journal of Entomology and Zoology Studies*
- **Member and Editor** in the *Indian Society of Biopesticides*.

**5- fields of Interest:**

- Pesticides biotechnology and molecular toxicology (insect target and metabolic enzymes).
- Biocides (baculoviruses) and chemical pesticides screening and insect bioassays.
- Insect molecular biology and physiology and integrated pest control.
- Pesticides analysis and residues.

## **6- Different Skills:**

### **1- Computer skills:**

International Computer Driving Licence (ICDL) on 2004.

### **2- Molecular biology skills:**

- Purifying of DNA& RNA technique.
- Electrophoresis: SDS-PAGE, IEF, 2-D, native & agarose gel.
- Isolation of DNA&RNA and Restriction Digestion.
- P.C.R techniques.
- Hands on experience with Electrophoresis, Colorimetric, Chromatography, and Spectrophotometer.
- ELISA technique
- HPLC and GC analysis

## **7. Training:**

- Training course for “Laboratory safety fundamentals training” from University of California at Davis – California – USA on October 25, 2014.
- Participation in several training courses for “*Faculty and Leadership Development*” in Zagazig University
- Training course about “*Risk analysis and technical training: Part II*” from 14-17 March, 2010 in Four season Hotel, Cornish El-Nil, Cairo, Egypt.
- Training course about “*Using GC and HPLC in biochemistry*” from 8 to 10 April, 2009 in the medical technology center, Alexandria University, Egypt.
- Participating in the training workshop about “*Applications of molecular biology techniques in immunology*” held at the medical technology center, Alexandria

University, Egypt from 25 to 28 March, 2009.

- Training course about “*Using quantitative-PCR in molecular biology*” in Haring Hall – UC Davis – California – USA in February 4, 2008.
- Training on “*Biosafety of using radioactive materials*” in Hoagland Hall - UC Davis – California – USA in 26-6-2007.
- Training on the “*Using geographical information system (GIS) and its applications*” in the Faculty of Art - Geography Department - Zagazig University from June 23, 2005 to September 15, 2005.
- Participating in Egypt-Germany training workshop about “*Plant genomic: from the gene to the product*” from 8<sup>th</sup> to 13<sup>th</sup> April, 2002 in the Institute of Genetic Engineering and Biotechnology, Minufia University, Egypt.

#### **8- Research projects:**

- **Member** in the Egyptian-American Universities Linkage Project, phase II, FRCU /USAID 263-0211, Grant # 93/04/16, from 2000 until 2002.
- **Principle investigator** of the project supported by Zagazig University (Grant # 27F8/P3; June, 2009-June, 2011).
- **Member** in agreement between Agriculture College and ZU hospitals for “Control of public health pests” from April 1<sup>st</sup>, 2012 until now.
- **Member** in a project #785 from July 1<sup>st</sup>, 2012 until now.
- **Principle investigator** of the project funded from STDF (Grant # 6111; March, 2014 - February, 2016).

#### **9- Seminars, Presentations, Lectures and Special talks:**

- Oral presentation about “*Toxicological effects and chromosomal aberration of diazinon on albino rats, Rattus norvegicus*” in the 5<sup>th</sup> international conference on biological sciences at Tanta University, faculty of Science, from 5 to 6 /11/ 2008.

- Lecture about “*Techniques of molecular toxicology in agriculture*” Zagazig University in July 2008.
- Seminar for Faculty of Agriculture members and students - Zagazig University about “*Studying the stability of expressed juvenile hormone esterase and biological effects of baculoviruses carrying wild type and mutated genes of JHE*” on October 29, 2008.
- Seminar for Faculty of Agriculture members and students - Zagazig University about “*Biotechnology and pest control*” on May 10, 2009.
- Special talk about “*Juvenile hormone epoxide hydrolase (jehh)- a potent and novel recombinant biopesticide*” in the International Symposium on Environmental Pollution, Ecology and Human Health held during 25 – 27 July 2009 at Sri Venkateswara University, Trupati, India.
- Lecture about “*Genetically modified baculoviruses and pest control*” in the Department of Sericulture, Sri Padmavati Mahila Visvavidyalayam (Women’s University), Trupati, India on July 28, 2009.
- Special talk about “*Egypt-India: Similarities & Differences*” in the Department of Political Sciences and Public Administration at Sri Venkateswara University, Trupati, India on July 28, 2009.
- Lecture about “*Plant Protection and behind*” in University of Missouri, Colombia, USA in November 15, 2010.
- Presentation about “*The potential of juvenile hormone esterase as a bio-insecticide: overview*” 3<sup>rd</sup> Arab conference, 10-12 October, 2011, Library and Information Center, Cairo University.
- Presentation about “*The role of  $\alpha$ - and  $\beta$ -hydrolase fold enzymes as biopesticides in pest management*” 3<sup>rd</sup> biopesticide international conference, St. Xavier’s College, Palaymakottai, India, 28-30 November, 2011.

- Lecture about “*Technology of using an insect enzyme and bioinformatics in pest control*”, Faculty of Agriculture, Zagazig University in April 29, 2012.
- General lecture about “*Pesticides: Safe and effective use*” to Agricultural Engineers of Sharkia Governorate on February 16, 2013.
- General lecture about “*The role of agriculture extension in educating farmers with integrated pest management programs*” to Agricultural Engineers of Sharkia Governorate on February 23, 2013.
- General lecture about “*Recent and alternative methods for agricultural pest control*” to Agricultural community and Engineers of Salheia Province at Sharkia Governorate on October 12, 2013.
- General lecture about “*Food pollution and preservation*” to Agricultural community and Engineers of Ibrahimia Province at Sharkia Governorate on December 21, 2013.

#### **10- Publications:**

Paul B. Tchounwou, Bassem A. Ashour, Curtina Moreland-Young, Didair A. Ragheb, Ahmed A. Romeh, El-Adarosy Goma, **El-Sayed El-Sheikh**, Frances P. Lidell, Olurominiyi Ibitayo, and Jean-Claude Assad. (2002). Health risk assessment of pesticide usage in Menia El-Kamh Province Sharkia Governorate in Egypt. *International Journal of Molecular Sciences*, 3: 1082-1094.

Mohamed-Bassem Ashour, Paul B. Tchounwou, Didair A. Ragheb, Bruce D. Hammock, **El-Sayed A. Elsheikh**, Said Abol-Ela and Eladarosy A. Goma (2004). Subchronic toxicity of two entomobaculoviruses, methomoyl and their binary mixtures to white rats. First International Symposium *On Recent Advances in Environmental Health Research*. September 19-22, 2004, Marriott Hotel, Jackson, Mississippi, USA (Poster).

Ashour, M.B.; D.A. Ragheb; E.A. Goma; **E.A. El-Sheikh**; S.G. Kamita and B.D. Hammock (2006). Comparative susceptibility of *Spodoptera littoralis* (Lepidoptera:

Noctuidae) larvae to recombinant and wild nuclear polyhedrosis viruses. *Zagazig Journal of Agricultural Research*, 33(1): 119-134.

Ashour, M.B.; Didair A. Ragheb; **E.A. El-Sheikh**; E.A. Gomaa; G. Kamita and B.D. Hammock (2006). Biosafety of recombinant and wild nuclear polyhedrosis viruses as bioinsecticides. Third International Symposium *On Recent Advances in Environmental Health Research*. September 19-22, 2006, Marriott Hotel, Jackson, Mississippi, USA (Poster).

Ashour, M.B.; D.A. Ragheb; **E.A. El-Sheikh**; E.A. Gomaa; S.G. Kamita and B.D. Hammock (2007). Biosafety of recombinant and wild nucleopolyhedroviruses as bioinsecticides. *International J. Environ. Res. Public Health*, 4(2): 111-125.

**El-Sayed A. El-Sheikh**, Ahmed A. Romeh, Mohamed A. Salama and Bassem A. Ashour (2008). Toxicological effects and chromosomal aberration of diazinon on albino rats, *Rattus norvegicus*. *The 5<sup>th</sup> international conference on biological sciences at Tanta University, faculty of Science, from 5<sup>th</sup> to 6<sup>th</sup> November, 2008*.

**El-Sayed A. El-Sheikh**, Shizuo G. Kamita and Bruce D. Hammock (2008). Juvenile hormone esterase: a promising enzyme for pest control. 42<sup>nd</sup> US-Japan workshop, UC Davis, California, USA. January 16-18, 2008 (Poster).

Dadalla M. Mamatha, **El-Sayed A. El-Sheikh** and Lizy P. Sravanthi (2009). Juvenile hormone epoxide hydrolase (JHEH): a potent and novel recombinant biopesticide. International Symposium on Environmental Pollution, Ecology and Human Health. 25 – 27 July 2009 at Sri Venkateswara University, Trupati, India. Pp 109-113.

**El-Sayed A. El-Sheikh** (2009). A genetically modified nucleopolyhedrovirus: effectiveness and *in vivo* expression in the black cutworm, *Agrotis ipsilon* (Lepidoptera:Noctuidae). *Egyptian Journal Biological Pest Control*, 19(2): 143-149.

**El-Sayed A. El-Sheikh** and Mohamed-Bassem A. Ashour (2010). **Book Chapter**: Biodegradation technology for pesticide toxicity elimination In: Bioremediation technology-recent advances. H.M. Fulekar Editor. Springer; 1<sup>st</sup> Edition, pp 290.

**El-Sayed A. El-Sheikh**, Shizuo G. Kamita, Bruce D. Hammock and Bassem A. Ashour



(2010). Pharmacokinetic and stability of recombinant juvenile hormone esterase isolated from *Manduca sexta*. BioVision Alexandria 2010, from 11-15 April 2010 in Alexandria Library, Egypt (Poster).

**El-Sayed A. El-Sheikh** and Mohamed-Bassem A. Ashour (2011). The Susceptibility of *Spodoptera littoralis* (Lepidoptera: Noctuidae) larvae to recombinant baculoviruses expressing an insect-toxin and a juvenile hormone metabolic enzyme. *International Journal of Applied Agricultural Research*, 6(1):17–28.

**El-Sayed A. El-Sheikh** and Mohamed M. Aamir (2011). Comparative effectiveness and field persistence of insect growth regulators on a field strain of the cotton leafworm, *Spodoptera littoralis*, Biosd (Lepidoptera: Noctuidae). *Crop Protection*, 30: 645-650.

**El-Sayed A. El-Sheikh**, Shizuo G. Kamita, Kim Vu and Bruce D. Hammock (2011). Improved insecticidal efficacy of a recombinant baculovirus expressing stabilized JH esterase from *Manduca sexta*. *Biological control*, 58: 354-361.

**El-Sayed A. El-Sheikh** (2011). Larval susceptibility of *Culex pipiens* L. (Diptera: Culicidae) collected from different localities at sharkia governorate to some insecticides. *Zagazig Journal of Agricultural Research*, 38(3): 759-774.

Mahmoud, M. G.; **E.A. El-Sheikh**, M.M. Aamir and M-B.A. Ashour (2011). Inducing toxic effects of sublethal doses of lambda-cyhalothrin on albino rats, *Rattus norvegicus* bork. *Zagazig Journal of Agricultural Research*, 38(3): 775-792.

**El-Sayed A. El-Sheikh**, Mary D. Mamatha, Didair A. Ragheb and Mohamed-Bassem A. Ashour (2011). The potential of juvenile hormone esterase as a bio-insecticide: overview. *Egyptian Journal Biological Pest Control*, 21(1):103-110.

**El-Sayed A. El-Sheikh**, Mary D. Mamatha (2012). The role of  $\alpha$ - and  $\beta$ -hydrolase fold enzymes as biopesticides in pest management. *Journal of Biopesticides*, 5: 233-238.

Jonathan E. Breitenbach, **El-Sayed A. El-Sheikh**, Robert L. Harrison, Daniel L. Rowley, Michael E. Sparks, Dawn E. Gundersen-Rindal, and Holly J.R. Popham (2013). Determination and analysis of the genome sequence of *Spodoptera littoralis*

multiple nucleopolyhedrovirus. *Virus Research*, 171: 194-208.

**El-Sayed A. El-Sheikh**, Mohamed-Bassem A. Ashour, Mohamed M. Aamir, Mohamed M. Gamal (2014). Monitoring the effect of insecticide selection on *Culex pipiens* (Diptera: Culicidae) larval susceptibility to malathion and lambda-Cyhalothrin . *Journal of Entomology*, 11(1): 14-24.

**El-Sayed A. El-Sheikh (2014)**. Virulence and pathogenicity of recombinant nucleopolyhedroviruses expressing a scorpion toxin and an insect enzyme on *Agrotis ipsilon* (Lepidoptera: Noctuidae) larvae. *African Entomology*, 22(3): 512-518.

**El-Sayed A. El-Sheikh (2015)**. Comparative toxicity and sublethal effects of emamectin benzoate, lufenuron and spinosad on *Spodoptera littoralis* Boisd. (Lepidoptera:Noctuidae). *Crop Protection*, 67: 228-234.

**El-Sayed A. El-Sheikh**, Khalid M. Mahrose, Ismail E. Ismail (2015). Dietary exposure effect of sublethal doses of methomyl on growth performance and biochemical changes in rabbits and the protective role of vitamin E plus selenium. *Egyptian Journal of Rabbit Science*, 25(1): 59-81.

**El-Sayed A. El-Sheikh**, Azza A. Galal (2015). Toxic effects of sub-chronic exposure of male albino rats to emamectin benzoate and possible ameliorative role of *Foeniculum vulgare* essential oil. *Environmental Toxicology and Pharmacology*, 39: 1177-1188.

Gamila Sh. Selem, **El-Sayed A. El-Sheikh (2015)**. Toxicity and biochemical effects of Neem Azal T/S, willow (*Salix aegyptiaca* L.) and Chasteberry (*Vitex agnus-castus* L.) on house fly, *Musca domestica* L. (Diptera : Muscidae). *Journal of Biopesticides*, 8(1): 37-44.