

# CURRICULUM VITAE



<b>Name :</b>	Prof. Dr. Mohamed Ahmed Ibrahim Ahmed Ph.D from UCDavis, CA, USA
<b>Current Position :</b>	Professor at Plant Protection Department, Faculty of Agriculture, Assiut University, Assiut 71526, Egypt
<b>Sex :</b>	Male
<b>Major Field</b>	Plant Protection
<b>Minor Field</b>	Pesticides - Economic Entomology - Medical Entomology- IPM
<b>Date of Birth :</b>	19/09/1979
<b>Social Status :</b>	Married and have 2 daughters
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<b>Google Scholar</b>	<a href="https://scholar.google.com.eg/citations?user=Kzc1VsYAAAAJ&amp;hl=en">https://scholar.google.com.eg/citations?user=Kzc1VsYAAAAJ&amp;hl=en</a>
<b>Mendeley</b>	<a href="https://www.mendeley.com/profiles/mohamed-ahmed-ibrahim-ahmed/stats/">https://www.mendeley.com/profiles/mohamed-ahmed-ibrahim-ahmed/stats/</a>

## Education:

- 1. Ph.D** in Agricultural and Environmental Chemistry, in December 09<sup>th</sup>, 2011, from University of California Davis (UCDavis), CA, USA. The title of the thesis is: **(Biochemical and Molecular Biological Studies on the Action of Formamidines in Synergizing Insecticidal Action of Pyrethroids and Neonicotinoids in *Aedes aegypti* Mosquitoes)**.
- 2. M.Sc.** in Agricultural Sciences (Plant Protection-Economic Entomology), in August 2003, from the Faculty of Agriculture, Assiut University, Egypt. The title of the thesis is: **(Laboratory and Field Evaluation of certain Bioinsecticides on Cotton leafworm and Bollworms)**.

3. **B.Sc.** in Agricultural Sciences (Plant Protection), June 2000, from Assiut University, Egypt, with general estimate **Excellent with honor degree**.

**Language abilities: Arabic, English, and German.**

**Computer skills: ICDL** (International Computer Driving License) from **UNESCO** (Information Technology, Microsoft Windows, Microsoft Word, Microsoft Excel, Microsoft Access, Microsoft Power Point, and Internet).

**Statistical program: IBM SPSS Statistics.**

**Laboratory and Research Skills:**

- Polymerase Chain Reaction (PCR).
- Reverse Transcription Polymerase Chain Reaction (RT-PCR).
- Real Time PCR (qPCR/qRT-PCR).
- Enzyme-linked immunosorbent assay (ELISA).
- DNA extraction from invertebrates.
- DNA extraction from insect and plant material.
- RNA extraction from insect and plant material.
- Rearing of *Drosophila* sp., Mosquitoes, and Lepidopterous pests.
- Micro-dissection of insects.
- GIS programming (ArcMap, ArcView).
- Slide preparation for light microscopy.
- Synthesis organic chemicals and identified them using IR, MS, and NMR.
- Measuring enzymes activities using general and fluorescent substrate in insects.
- Determination of pesticide residues in fresh Samples using QuEChERS method with Gas Chromatography (GC) and High-Performance Liquid Chromatography (HPLC).

**Work Experience:**

**A. Professor in Plant Protection Department, Faculty of Agriculture, Assiut University, Egypt, 2022- Till now.**

**Duties:**

- Applying the scientific method to all disciplines within the field of pesticides
- Building a course curriculum
- Preparing course syllabi
- Mentoring students
- Presenting lectures
- Creating supplemental instructional materials
- Accurately evaluating students' progress
- Grading
- Staying current on the subject material
- Researching and publishing
- Presenting research
- Leading and directing research in the field of pesticides

**B. Associate Professor in Plant Protection Department, Faculty of Agriculture, Assiut University, Egypt, 2017- 2022.**

## **Duties:**

- Develop, design and facilitate learning experiences that are engaging, challenging and informed by pedagogical scholarship and professional practice.
- Develop and/or lead in the design of the curriculum and of innovative programmes.
- Design, develop, deliver and review study programmes to comply with standards and regulations.
- Demonstrate effective teaching and professional practice as measured by student feedback, assessment outcomes and success, peer review and external validation.
- Apply innovative teaching techniques which create interest, understanding and enthusiasm amongst students. As Principal Investigator, develop research proposals and external funding bids, design and lead research projects, ensuring their effective management and delivery of outcomes.
- Act as a referee and contribute to peer assessment of research grants and papers.
- Disseminate research outputs in a form appropriate to the discipline e.g. publication at international level, conferences and seminars, exhibitions etc.
- Work in conjunction with others to apply subject knowledge to practice and innovative research. Lead and develop internal networks (e.g. as chair) and participate in institutional committees and external networks (e.g. external examiner to other institutions) to foster collaboration and share information/ideas to promote the subject and the University.
- Disseminate conceptual and complex ideas of a wide variety of audiences using appropriate media and methods to promote understanding.
- Provide academic leadership within programme areas to ensure courses are delivered effectively or organise the work of a team by agreeing objectives and work plans.
- Act as line manager (formally or informally) for matters relating to the employment of staff and ensure the work is allocated fairly according to skills and capacity.
- Appraise and advise staff on personal and career development plans.
- Contribute and collaborate towards team development,
- Resolve problems affecting the quality of course delivery and student progress, referring more serious matters to others.
- Lead research degree programmes, researcher development or a research group and supervise research degree students.
- Make presentations or exhibitions at national and/or international conferences and other similar events. Lead and encourage team work, resolving conflict when necessary.
- Responsible for dealing with referred issues for students, in accordance with University regulations.
- Provide support for colleagues, drawing on specialist advice and support as required. Resolve problems affecting the delivery of courses within own educational programme and in accordance with regulations.
- Monitor student progress and retention.
- Provide advice on strategic aspects including staff and student resourcing and other performance matters.
- Identify and facilitate opportunities for strategic development of new courses and appropriate areas of activity.
- Design and plan research projects and ensure deliverables are achieved.
- Responsible for managing resources, assessments, laboratories, workshops, facilities and for ensuring that student needs and expectations are met.
- Contribute to institutional planning, standards, staff resourcing, research, strategic development, priorities and goals.
- Be responsible for ensuring that the information and records processed (received, created, used, stored, destroyed) on behalf of the University are managed in compliance with all applicable legislation, codes and policies e.g. Data Protection, Information Security and Records Management.

- Responsible for managing research project budgets and adhering to the guidelines of the funding body and University. Responsible for managing risk and promoting safe practices within the work environment (e.g. laboratories, workshops, and field trips).
- Some national and international travel will be required. In-depth understanding of own specialism to enable the development of new knowledge and understanding within the field.
- Be a nationally and internationally recognised authority, publication author (or equivalent as appropriate to discipline) and scholar in the subject discipline.

**C. Assistant Professor and researcher in Plant Protection Department, Faculty of Agriculture, Assiut University, Egypt, 2011- 2017.**

**Duties:**

- 1- Get to know about the roles, tasks, duties and responsibilities of College Professor.
- 2- Design and develop curricula for students taking up innovative approaches.
- 3- Deliver a range of programs of teaching for students.
- 4- Ensure teaching within the quality assurance framework of the college.
- 5- Perform student admissions and assessments.
- 6- Set, mark and assess examinations and works.
- 7- Develop, implement and coordinate college research strategy.
- 8- Supervise student projects and degree (M.Sc. and Ph.D.) and ensure field trips if necessary.
- 9- Develop the ability of students to engage in critical discourses and rational thinking.
- 10- Promote and develop team spirit and team coherence.
- 11- Ensure teaching design and methods are in compliance with the educational standards and regulations of the department.

**D. Post-Doctoral researcher in Center for Health and the Environment, UC Davis, Davis 95616, USA, 2014 – 2015 and 2019 – till now.**

**Duties:**

- 1- Carrying out innovative and insightful research in the field of Pesticides, Medical Entomology, Economic Entomology, Detecting of Pesticide residue, and Insect molecular biology under laboratory and field conditions.
- 2- Designing and executing small and large scale laboratory and field experiments.
- 3- Rearing Insect (such as, Mosquitoes and Lepidopterous pests) in the insectary room in professional methods and protocols.
- 4- Collecting data based on different sampling methods, analyzing, and summarizing data associated with research projects using advanced programs.
- 5- Preparing data for reporting and publication, presenting data to lab meetings and conferences.

**E. Assistant lecturer and researcher in Plant Protection Department, Faculty of Agriculture, Assiut University, Egypt, 2003-2011.**

**Duties:**

- 1 - Conduct literature reviews, surveys, laboratory experiments and other research for use in scholarly publications.
- 2 - Compile research results and assists Professors in analysis of results and preparation of journal articles or papers.
- 3 - Conduct ecological and environmental studies and prepare reports.
- 4 - Supervise biological technologists, technicians and other scientists.
- 5 - Conduct studies into effects, Evaluation, and control of pests, especially biopesticides and biological control.

**F. Demonstrator and researcher at Plant Protection Department, Faculty of Agriculture, Assiut University, Egypt, 2001-2003.**

**Duties:**

- 1 - Organize reference materials, visual aids and other materials as required by University Professors.
- 2 - Conduct seminars, discussion groups, and laboratory sessions to supplement lectures.
- 3 - Assist in preparation and administration of examinations.
- 4 - Grade examinations, term papers, and laboratory reports.
- 5 - Supervise and discuss under-graduate students in conducting their training experiments at field and laboratory.
- 6 - Conduct ecological and environmental impact studies and prepare reports.
- 7- Supervise under-graduate students through summer practical training courses.

**Administrative positions:**

- Member of the Supreme Executive Committee for the project of continuous development and qualification for accreditation 2012-2014 and then from 2016 until now.
- Member of the CIQAP project team, Faculty of Agriculture 2012-2014.
- Member of the Board of Directors of the Center for Financing Research and International Scientific Publishing.
- Secretary of the Department of Plant Protection - Faculty of Agriculture from 2013 until 2014.
- Member of the Board of the Department of Plant Protection - Faculty of Agriculture from 2012 until now.
- Member of the Education and Student Affairs Committee, Faculty of Agriculture, 2015-2016.
- Member of the Purchase Committee of books, equipment and chemicals in the department from 2012 until now.
- Member of the committee supervising the teaching staff in the department from 2012 until now.
- Member of the Committee of Quality Assurance and Accreditation of the Department from 2012 until now.
- Coordinator of the financial and material resources standard at the college and the department 2012-2014.
- Coordinator of the scientific research standard in the College and Section 2017 till now.
- Member of the Updating of curriculum file committee.
- An academic advisor for the students of the department according to the list of credit hours in the different academic years.
- Scientific consultant of the Scientific Committee of the Students Union of the Faculty of Agriculture - Assiut University 2017 till now.

**Training (in USA)**

<b>Field of Study</b>	<b>Dates</b>	<b>Language/Place of Instruction</b>
• Moving Beyond Pesticides: Environmentally Safe Tools for Use in an IPM Program	(2019)	English UC Davis, CA 95616, USA

- How to Safely Use and Handle Paraquat-Containing Products Quality (2019) English UCDavis, CA 95616, USA
- Citrus IPM: California Red Scale and its Natural Enemies Quality (2019) English UCDavis, CA 95616, USA
- Urban Pesticide Runoff and Mitigation: Herbicides and Water Quality (2019) English UCDavis, CA 95616, USA
- Urban Pesticide Runoff and Mitigation: Water Quality with focus on Bifenthrin and Fipronil (2019) English UCDavis, CA 95616, USA
- Urban Pesticide Runoff and Mitigation: Impact of Pesticides and Mitigation (2019) English UCDavis, CA 95616, USA
- Urban Pesticide Runoff and Mitigation: IPM and Pesticide Properties (2019) English UCDavis, CA 95616, USA
- Cultural Communications in the workplace environment (2015) English UCDavis, CA 95616, USA
- UC Laboratory safety of radiation (2015) English UCDavis, CA 95616, USA
- UC laboratory safety fundamentals (2014) English UCDavis, CA 95616, USA
- Animal care and use 101 (2014) English UCDavis, CA 95616, USA
- Lab radiation safety (2011) English UCDavis, CA 95616, USA
- UC ethical values and conduct (2010) English UCDavis, CA 95616, USA

### **Training (in home country)**

<b>Field of Study</b>	<b>Dates</b>	<b>Language/Place of Instruction</b>
• Training program for the position of Vice-Dean and Head of Department	(2022)	Arabic/ Assiut University
• Fundamentals of digit transformation	(2021)	Arabic/ Assiut University
• How to activate an electronic course	(2019)	Arabic/ Assiut University
• Analytical and creative thinking in teaching	(2019)	Arabic/ Assiut University
• Training of Trainee (TOT) in pesticide application	(2019)	Arabic/ Assiut University
• The effective and safe application of pesticides	(2018)	Arabic/English/ Syngenta Co., Egypt
• Training of trainers for traders in pesticides	(2017)	Arabic-English/ Ministry of Agriculture, Egypt
• Management of crises and disasters	(2017)	English/ Assiut University, Egypt
• Description of the course of credit hours system on the Farabi program	2017	English/ Assiut University, Egypt
• Research group management	(2013)	English/ Assiut University, Egypt
• Effective presentation	(2013)	English/ Assiut University, Egypt
• University Administration	(2013)	English/ Assiut University, Egypt
• Credit hour system	(2013)	English/ Assiut University, Egypt
• Time and conference management	(2013)	English/ Assiut University, Egypt

- Intl. Computer driving License (2005) English/ UNESCO, Egypt

### **Grants and Awards:**

#### **Grants:**

- Post-Doctoral scholarship from Egyptian Government to conduct research at The University of California Davis (UCDavis), CA, USA (2019- till now).
- Post-Doctoral scholarship from Egyptian Government to conduct research at The University of California Davis (UCDavis), CA, USA (2014- 2015).
- Ph.D scholarship from Egyptian Government to study at The University of California Davis (UCDavis), CA, USA (2006-2011).

#### **Awards:**

- 1- Best agricultural scientific paper in 2021.
- 2- Best paper published from Elsevier publisher in Acta Tropica journal (IF: 2.51) in 2016.
- 3- Best paper published from Elsevier publisher in Pesticide Biochemistry and Physiology journal (IF: 3.44) in 2015.

### **Teaching Experience:**

Teaching **the lecture and practical sessions** (in Egypt and USA) of the following courses since November 2000 in English language: -

1. **"Principles of entomology"** to students of the 1<sup>st</sup> year of Faculty of Agriculture.
2. **"Chemistry of Pesticides"** to students of the 2<sup>nd</sup> year of Faculty of Agriculture.
3. **"Insect ecology"** to students of 3<sup>rd</sup> year of Plant Protection Department.
4. **"Insect Physiology"** to students of 3<sup>rd</sup> year of Plant Protection Department.
5. **"Fundamentals of Pest Control"** to students of 3<sup>rd</sup> year of Plant Protection Department.
6. **"Medical and veterinary pests"** to students of 3<sup>rd</sup> year of Plant Protection Department.
7. **"Biological Control of Pests"** to students of 4<sup>th</sup> year of Plant Protection Department.
8. **"Insects of Field Crops"** to students of 4<sup>th</sup> year of Plant Protection Department.
9. **"Insects of Horticulture Crops"** to students of 4<sup>th</sup> year of Plant Protection Department.
10. **"Side effects of Pesticides"** to students of 4<sup>th</sup> year of Plant Protection Department.
11. **"Pesticides of Pathogens"** to students of 4<sup>th</sup> year of Plant Protection Department.
12. **"Advanced of Pesticides Analysis"** to graduate students (M.Sc. and Ph.D) of Plant Protection Department.
13. **"Chemistry of Pesticides and its relation to the toxicology"** to graduate students (M.Sc. and Ph.D) of Plant Protection Department.
14. **"The using of biotechnology in the field of pest control"** to graduate students (M.Sc. and Ph.D) of Plant Protection Department.
15. **"Advanced of Pesticides Resistance"** to graduate students (M.Sc. and Ph.D) of Plant Protection Department.
16. **"Metabolism and degradation of Pesticides"** to graduate students (M.Sc. and Ph.D) of Plant Protection Department.
17. **"Advanced of Medical Entomology"** to graduate students (M.Sc. and Ph.D) of Plant Protection Department.

18. “**Advanced Acarology**” to graduate students (M.Sc. and Ph.D) of Plant Protection Department.

19. “**Taxonomy of Acarology**” to graduate students (M.Sc. and Ph.D) of Plant Protection Department.

### **Supervisions:**

**1- Doaa Ahmed Hashem** “Determination of common pesticide residue in some vegetables in Assiut”. Plant Protection Department, Faculty of Agriculture, Assiut University, M.Sc. 2019.

**2- Tasneem Abdel-Raouf Mohamed** “.Effect of glyphosate compound on the toxicity of certain pesticides against Culex mosquito and Albino rats” Plant Protection Department, Faculty of Agriculture, Assiut University, Ph.D. 2018

**3- Salma A. Abdien.** “Effect of some insect growth regulators on the Cotton leafworm, *Spodoptera littoralis* (Boisduval)”, Plant Protection Department, Faculty of Agriculture, Assiut University, M.Sc. 2017.

**4- Abdel Rahman M.H. El-Geddawy,** “Biological and Toxicological Studies on Cotton leafworm, *Spodoptera littoralis* (Boisd.)”, Plant Protection Department, Faculty of Agriculture, Assiut University, M.Sc. 2015.

**5- Mahmoud Fakeer,** “Ecological Studies on some mite species associated with subterranean termites with special reference to termites control in the New Valley Governorate”, Plant Protection Department, Faculty of Agriculture, Assiut University, M.Sc. 2014.

**6- Yousra A. Nafea,** “Evaluation of some synthesized pyrazoline pesticides on Cotton leafworm, *Spodoptera littoralis* (Boisd.)” Chemistry Department, Faculty of Science, Assiut University, M.Sc. 2014.

**7- Omar Khelif Abd-Alla.** “Assessment of the lethal and sublethal toxic effect of certain pesticides on honey bee”. Plant Protection Department, Faculty of Agriculture, Assiut University, M.Sc. until now.

**8- Sadam Abdel Elkader Ameer** “Comparative toxicological studies of selected insect growth regulators (IGR) and its nanometric forms on *Culex pipiens* mosquito” Plant Protection Department, Faculty of Agriculture, Assiut University, M.Sc. until now.

**9- Salma A. Abdien.** “Impact of certain pesticides and heavy metals on polluting some soils and plants” Plant Protection Department, Faculty of Agriculture, Assiut University, Ph.D. until now.

**10- Fatma Al-Zahraa Mohamed wafky.** “Determination of certain pesticide residues in fruits in Assiut city, Egypt using chromatographic analysis” Plant Protection Department, Faculty of Agriculture, Assiut University, M.Sc. until now.

**11- Mohamed Fawzy.** Plant Protection Department, Faculty of Agriculture, Assiut University, Ph.D. until now.



**12- Doaa Ahmed Hashem.** Plant Protection Department, Faculty of Agriculture, Assiut University, Ph.D. until now.

**13- Rasha Rezk.** Plant Protection Department, Faculty of Agriculture, Assiut University, M.Sc. until now.

**14- Sanaa Mahmoud Said.** Plant Protection Department, Faculty of Agriculture, Assiut University, Ph.D. until now.

**Conferences, Meetings, and workshop (International and national):**

- Participation and Membership in the Organization committee of the First Conference on Safe Alternatives of Pesticides for Pest Management, Assiut University, Assiut, Egypt, 2001.
- Participation and Membership in the Organization committee of International Conference for Development and the Environment in the Arab World, Assiut University, Assiut, Egypt, 2002.
- Participation and Membership in the Organization committee and participation of the First Conference of Postgraduate Students (CPS), Assiut University, Assiut, Egypt, 2003.
- Participation and Membership in the Organization committee of the Scientific Conference of Agricultural Sciences, Assiut University, Assiut, Egypt, 2004.
- Participation and Membership in the Organization committee of the 35<sup>th</sup> Annual Winter Colloquium for the Graduate Group in Agricultural and Environmental Chemistry, UC Davis, CA, USA, February, 2007.
- Participation in the 42<sup>nd</sup> annual USA-Japan Parasitic Diseases Panel Meeting, UC Davis, CA, USA, Jan. 16-18, 2008.
- Participation in 36<sup>th</sup> Annual Winter Colloquium for the Graduate Group in Agricultural and Environmental Chemistry in February, title "Insecticide resistance monitoring of field-collected *Culex pipiens* (Diptera: Culicidae) from California", UC Davis, CA, USA, 2008.
- Participation in 37<sup>th</sup> Annual Winter Colloquium for the Graduate Group in Agricultural and Environmental Chemistry in February, title "Insecticide resistance monitoring of field-collected *Culex pipiens* (Diptera: Culicidae) from California", UC Davis, CA, USA, 2009.
- Participation in 38<sup>th</sup> Annual Winter Colloquium for the Graduate Group in Agricultural and Environmental Chemistry in February, title "The role of octopamine receptor agonists in altering behavior, and synergizing insecticidal action of pyrethroids through unique molecular mechanisms of actions in Mosquitoes (*Aedes aegypti*) and *Drosophila (Drosophila melanogaster)*", UC Davis, CA, USA, 2010.
- Participation and Membership in the Organization and scientific committee of Sixth Scientific Conference of Agricultural Sciences, Assiut University, Assiut, Egypt, May 2012.
- Participation in the 2012 3<sup>rd</sup> Journal Conference on Environmental Science and Development (JCESD 2012 3<sup>rd</sup>) paper titled "Monitoring of Insecticide Resistance of *Culex pipiens* (Diptera: Culicidae) Colonies-Collected from California", Dubai, UAE, August 2012.
- Participation and Membership in the Organization and scientific committee of the sixth Conference of young researchers, Assiut University, Assiut, Egypt, October 2012.

- Participation and Membership in the Organization and scientific committee of seventh Conference of young researchers, Assiut University, Assiut, Egypt, April 2014.
- Participation and Membership in the Organization and scientific committee of “50 years of research and mentoring: Symposium in honor of the life and career of professor Fumio Matsumura”, San Francisco, CA, USA, August 10<sup>th</sup>, 2014.
- Participation in the international conference on science, ecology and technology I, paper titled " The Repellent Effects of Formamidine Pesticides against *Aedes aegypti* (Diptera: Culicidae) mosquito Under Laboratory Conditions.", Vienna, Austria, August, 2015.
- Participation in the International Arab Conference on Quality Assurance in Higher Education, Assiut University, Egypt. February 20 - 22, 2017.
- Participation in the 3<sup>rd</sup> International Conference on Environmental Science and Technology (ICOEST), paper entitled “Laboratory assessment of unique pyridaben pesticide on the fourth instar larvae of *Culex pipiens* L. (Diptera: Culicidae) mosquito”. Budapest, Hungary, 19-23 October, 2017.
- Participation in the 1<sup>st</sup> international conference on applied agricultural sciences and prospective technology (ICASPT 2018), Luxor, Egypt, February 23-26, 2018.
- Participation in the 9<sup>th</sup> Conference for Development and Environment in the Arab World, Assiut University, Egypt. April 15 - 17, 2018.
- Participation in the 4<sup>th</sup> International Conference on Environmental Science and Technology (ICOEST), paper entitled “Unique Efficacy of Sulfoxaflor pesticide on *Culex Pipiens* L. (Diptera: Culicidae) Mosquitoes”. Kiev, Ukraine, 19-23 September, 2018.
- Participation in the 9<sup>th</sup> International Conference on Sugar and Integrated Industries. Luxor, Egypt. November 18-21, 2018.
- Participation in “Surface cultivation: a profitable project and a new face for cities workshop” Assiut University, Assiut, Egypt. March 19<sup>th</sup>, 2019.
- Participation in “Forensic Entomology: Contemporary Vision workshop” Assiut University, Assiut, Egypt. April 15<sup>th</sup>, 2019.
- Participation in the annual of Diversity in Science, Technology, Engineering, and Mathematics (STEM) Conference. UC Davis, CA, USA. Saturday, January 25<sup>th</sup>, 2020.
- Participation in the Sixth international conference “Recent trends in innovation, creativity, and technology, Siwa-Matrouh, Egypt. April 4<sup>th</sup>, 2021.

### **Projects (International and National):**

- Participation in memorandum and scientific research between Assiut University and the Goiano Federal Institute, Barzil. 2021-2022.
- Participation in project “Evaluation of Pesticides against Cotton Pests” (\$15000) funded by Ministry of Agriculture, The Government of Egypt, 2001.
- Participation in project: NIH/NIAID U01 AI058267 (Control of urban and peri-urban *Culex* mosquitoes, G. Lanzaro, PI, UCDavis, CA, USA. 2006-2009.
- Participation in project: PHS OH07550, NIOSH Western Center for Agricultural Safety & Health, Rapid Assays for Human and Environmental Exposure Assessment, Project 4. UCDavis, CA, USA. 2006-2009.
- Participation in project: NIH/NIAID R01 AI068855, Glutathione-S-transferase mediated pyrethroid resistance in *Culex pipiens*, A. Cornel, PI. UCDavis, CA, USA. 2006-2009.
- Vice principle investigator of project titled “Evaluation of new pesticides on field crop pests in Assiut city, Egypt” (\$20000). Project no. 788, from Ministry of

Agriculture & Land Reclamation, Agricultural Pesticide Committee, the Government of Egypt, 2012, 2013, and 2014.

- Vice principle investigator of project titled "Evaluation of new pesticides on field crop acarid pests in Assiut city, Egypt" (\$20000). Project no. 504, from Ministry of Agriculture & Land Reclamation, Agricultural Pesticide Committee, The Government of Egypt, 2012, 2013, and 2014.

- Principle investigator of project titled "Evaluation of new fungicides on Powdery mildew on grapes in Assiut city, Egypt" (\$21000). Project no. 791, from Ministry of Agriculture & Land Reclamation, Agricultural Pesticide Committee, The Government of Egypt, 2013 – until now.

- Project titled "Unique mechanism efficacy of certain novel products and its nano particle forms as safe alternative of conventional pesticides on Culex mosquitoes and Albino Rats.". Graduate Studies & Research Sector, Assiut University. (\$100000). 2019. Under review.

- Project titled "Chemical and Biological Control of *Tuta absoluta* M. in Assiut City, Egypt". Pharmaceutica Co. (\$150000). 2019. Under review.

- Project titled "Prospective screening of water quality for the contamination with pesticides using innovative antibody-based assay and biosensor" The USA-Egypt Science and Technology (S&T) Joint Fund Board. ((\$100000). 2019. Under review.

- Project titled" efficacy of novel pesticides and their biochemical and molecular biological investigation of *Aedes aegypti* and *Culex pipiens* mosquitoes" funded from Egyptian Government (SAB 2216) to be carried out at UC Davis 2019-2020.

#### **Activities (International and National):**

- Participation in Quality Assurance and Accreditation Project (QAAP), Assiut University, Assiut, Egypt, 2005.

- Participation in Faculty and Leadership Development Project (FLDP), Assiut University, Assiut, Egypt, 2006.

- Represent UCDavis at Graduate Fair at the University of Arizona, Tucson, AZ, USA, Oct. 24, 2007.

- Represent UCDavis at the African and Black Coalition Conference, UCIrvine, Irvine, CA, USA, May 3<sup>rd</sup>, 2008.

- Participation in Iraqi Agricultural Extension Revitalization program (IAER) at International Program Office (IPO) as English-Arabic translator, UCDavis, CA, USA, 2009.

- Active member in Quality Assurance and Accreditation Project (QAAP) at Faculty of Agriculture, Assiut University, Assiut, Egypt. 2011.

- External referee of imported pesticides in the Agricultural Pesticides Committee (APC), Ministry of Agriculture and Land Reclamation, The Government of Egypt, 2012-2014.

- Coordinator of the Arabic activities at I-House Davis, Davis, CA, USA, 2014-2015.

- Participation in Human Rights Day observance by United Nations Association of the United States of America (UNA-USA) at International House Davis, Davis, CA, USA, January 03<sup>rd</sup>, 2015.

- Participation in "Growers and Farmers Awareness of Pomegranate Pests and Diseases Control" Elbadary City, Assiut, Egypt, 2017.

- Participation in Molecular Genetics & Biotechnology Seminars (MGBS) and presented paper titled "Unique biochemical and molecular biological mechanism of synergistic actions of formamidine compounds on selected pyrethroid and neonicotinoid insecticides on the fourth instar larvae of *Aedes aegypti* (Diptera:Culicidae), December 31, 2018, Assiut University, Egypt.

- Participation in "Training pesticide operators within the training and qualification program for employment" Assiut University, Assiut, Egypt. January 27-31, 2019.
- Participation in Molecular Genetics & Biotechnology Seminars (MGBS) and attended Molecular Plant Biology Symposium. February 27<sup>th</sup>, 2019.
- Participation in Online Education Unit by giving lecturer to under/post-graduate students. March 19<sup>th</sup>, 2019.
- Participation in the training "Guidelines on good and safe practice for application of Agricultural pesticides" Assiut University, Assiut, Egypt. April 7-9, 2019.
- Participation in the training workshop titled, how to search effectively on scientific engine, how to give effective presentation, and how to write effective curriculum vitae (CV). Assiut University, Assiut, Egypt. April 16<sup>th</sup>, 2019.
- Active member in "Center of Excellence in Agriculture" between Assiut University and UC Davis funded from USAID (\$30 millions).

### **Memberships of respected societies:**

1. Entomological Society of America (ESA).
2. Pesticide Science Society of Japan (PSSJ)
3. The Egyptian Entomological Society (EES).
4. Egyptian Society of Pesticides (ESP)
5. Arabic Society of Plant Protection (ASPP)
6. Society of Environmental Toxicology and Chemistry Europe (SETCE)
7. Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES).
8. Hong Kong Chemical, Biological & Environmental Engineering Society (HKCBEEES).
9. Society of Environmental Toxicology and Chemistry (SETAC).
10. American Mosquito Control Association (AMCA).

### **Official reviewer of many Journals:**

1. Journal of Hazardous Materials Advances, Elsevier publisher
- 2- Food and Chemical Toxicology, Elsevier (IF: 6.023)
3. Journal of Vector Borne Diseases, ISSN 0972-9062 (IF: 1.47)
3. International Journal of Industrial Chemistry, Springer publisher (IF: 1.52)
4. Environmental Monitoring and Assessment, Springer publisher (IF: 1.63).
5. Agroforestry System, Springer publisher (IF: 0.91).
6. Journal of Biological Biodiversity, Unsjournals Publisher, (Scopus Journal).
7. Direct Research Journal of Agriculture and Food Science, Direct Research Publisher, ISSN: 2354-4147).
8. Journal of Medical Entomology, Entomological Society of America (IF: 1.71).
9. Annals of Agricultural Science, Elsevier publisher, ISSN: 0570-1783
10. Journal of Environmental Chemistry and Ecotoxicology, AcademicJournals publisher, United Kingdom. ISSN: 2141-226X
11. Journal of Advances in Biology. ISSN: 2347-6893
12. Journal of Advances in Agriculture. ISSN: 2349-0837
13. International Journal of Environmental Science and Development. ISSN: 2010-0264
14. International Journal of Toxicology and Environmental Health, Premier Publishers, ISSN: 1822-424X
15. Merit Research Journal of Agricultural Science and Soil Sciences, MR Journals, ISSN: 2350-2274

16. Jordan Journal of Biological Sciences, Hashemite University publisher, ISSN 1995-6673
17. Journal of Phytopathology and Pest Management, pISSN: 2356-8577, eISSN: 2356-6507. (IF: 0.454)
18. Recent Patents on Food, Nutrition & Agriculture, Bentham Science publisher, ISSN: 1876-1429 (Online), ISSN: 2212-7984 (Print)

**Journal Editorial board:**

No.	Journal name	Publisher	ISSN
1	Frontiers in Environmental Science (Q1)	Frontiers	2296-665X
2	Frontiers in Marine Science (Q1)	Frontiers	2296-7745
3	Journal of the Saudi Society of Agricultural Sciences (Q1)	Elsevier	1658-077X
4	Research Journal of Environmental Toxicology	Science Alert	1819-3420
5	American Journal of Entomology	Science Publishing Group	
6	Journal of Advances in Agriculture	CIRWORLD Publisher	2349-0837
7	Academic Journal of Entomology	International Digital Organization for Scientific Information (IDOSI)	1995-8994
8	Recent Patents on Food, Nutrition & Agriculture	Bentham Science	2212-7984
9	Journal of Crop Protection and Rural Sociology	Global Academics Journals	4326-798X

**Book:** Hepato-morphology and biochemical studies on the liver of Albino rats after exposure to Glyphosate-Roundup®, **Publisher:** LAP LAMBERT Academic Publishing, 2019, ISBN-13: 978-613-9-46391-6, ISBN-10: 6139463912, EAN: 9786139463916

**TV show guest:**

- 1- **HBC Channel, Egypt's youth program**, titled "Pesticide residues in food and their impact on public health" December 15<sup>th</sup>, 2022
- 2- **Elhadath Elyoum Channel, Agriculture live program**, titled "Climate change", December 11<sup>th</sup>, 2022.
- 3- **Misr Agricultural Channel, Agricultural guide program**, titled "The phenomenon of pest resistance to the action of pesticides" October 17<sup>th</sup>, 2022

- 4- **Misr Agricultural Channel, Agricultural guide program**, titled “Pesticide risks”, September 26<sup>th</sup>, 2022.
- 5- **Misr Agricultural Channel, Agricultural now program**, titled “Fall Armyworm and how to control it, August 15<sup>th</sup>, 2022.
- 6- **Misr Agricultural Channel, Agricultural guide program**, titled “Risks of excessive use of agricultural pesticides and methods of safe use”, February 23<sup>th</sup>, 2022.
- 7- **Nile news Channel, Science talk program**, titled “Recent trends in agricultural pest control”, December 28<sup>th</sup>, 2021.
- 8- **Misr Agricultural Channel, Egypt every day program**, titled “How to protect honey bees from pesticide poisoning”, November 29<sup>th</sup>, 2021.
- 9- **Misr Agricultural Channel, Agricultural guide program**, titled “Safe use of pesticides without harming the environment”, October 25<sup>th</sup>, 2021.
- 10- **Misr Agricultural Channel, Egypt every day program**, titled “Defining the armyworm, its harms, and how to deal with it and combat it scientifically”, September 19<sup>th</sup>, 2021.

**Articles in newspapers and magazines:**

- 1- **Elmesaa newspaper**, titled “In line with preparing for the Climate Summit, a green lung for the sweetest air”, September 23<sup>th</sup>, 2022.
- 2- **Sout Alomma newspaper**, titled “The mango crop, how it contributes to increasing the national income and increasing its export rate abroad”, September 1<sup>st</sup>, 2022.
- 3- **Elmoswer magazine**, titled “Remote sensing is an advanced pest control technique that serves Egyptian agriculture”, December 21<sup>th</sup>, 2022.
- 4- **Elmoswer magazine**, titled “Pest resistance to pesticides is a threat to agriculture”, October 13<sup>th</sup>, 2021
- 5- **Akhbar Elyom newspaper**, titled “An agricultural expert puts a prescription to control insects and pests”, August 20<sup>th</sup>, 2021.

### **Recent publications:**

- 1- AL-Haithloul HA, Alqahtani MM, Abdein MA, **Ahmed MAI**, Mohamed SE, Aljameeli MM, Al Mozini RN, Gharsan FN, Hussien SM and Al-Amier YA. **2023**. Rosemary and Neem Methanolic Extract: Antioxidant, Cytotoxic and Larvicidal Activities Supported by Chemical Composition and Molecular Docking Simulations. **Frontiers in Plant Science**. Doi: [10.3389/fpls.2023.1155698](https://doi.org/10.3389/fpls.2023.1155698)
- 2- Araújo APDC, Luz TMD, **Ahmed MAI**, Ali MM, Rahman MM, Nataraj B, de Melo E Silva D, Barceló D, Malafaia G. **2023**. Toxicity assessment of polyethylene microplastics in combination with a mix of emerging pollutants on *Physalaemus cuvieri* tadpoles. **Journal of Environmental Sciences**. 127: 465-482.
- 3- Mohamed MF and **Ahmed MAI**. **2022**. Toxicity assessment of certain insecticides against onion thrip, *Thrips tabaci* Lindeman (Thysanoptera: Thripidae) on onion seed production under field conditions. **New Valley Journal of Agricultural Science**. 2(6): 565-572.
- 4- Nataraj B, Maharajan K, Malafaia G, Hemalatha D, **Ahmed MAI**, Ramesh M. **2022**. Gene expression profiling in liver of zebrafish exposed to ethylhexyl methoxycinnamate and its photoproducts. **Science of the Total Environment**. 826: 154046.
- 5- Araújo APDC, Luz TMD, Rocha TL, **Ahmed MAI**, Silva DME, Rahman MM, Malafaia G. **2022**. Toxicity evaluation of the combination of emerging pollutants with polyethylene microplastics in zebrafish: Perspective study of genotoxicity, mutagenicity, and redox unbalance. **Journal of Hazardous Materials**. 432: 128691.
- 6- Gonçalves SO, Luz TMD, Silva AM, de Souza SS, Montalvão MF, Guimarães ATB, **Ahmed MAI**, Araújo APDC, Karthi S, Malafaia G. **2022**. Can spike fragments of SARS-CoV-2 induce genomic instability and DNA damage in the guppy, *Poecilia reticulata*? An unexpected effect of the COVID-19 pandemic. **Science of the Total Environment**. 825: 153988.
- 7- Malafaia G, TM da Luz, **Ahmed MAI**, S Karthi, AP da Costa Araújo. **2022**. When toxicity of plastic particles comes from their fluorescent dye: a preliminary study involving neotropical *Physalaemus cuvieri* tadpoles and polyethylene microplastics. **Journal of Hazardous Materials Advances**. 6: 100054.
- 8- **Ahmed MAI**, AMM Ahmed, G Malafaia, TA Elghareeb. **2022**. Octopamine receptor agonists synergistically increase the selected pesticides' toxicity in *Rhopalosiphum padi*: Perspectives for reducing pesticide use, emergence of resistant strains and environmental impacts. **Journal of Hazardous Materials Advances**. 6: 100069.
- 9- Abadia LEM, Gomes AR, Freitas ÍN, Guimarães ATB, Vaz BG, **Ahmed MAI**, Luz TMD, Rodrigues ASL, Malafaia G. **2022**. Hazardous effects of road-side soils on the redox and cholinesterasic homeostasis of mound-building termite (*Cornitermes cumulans*). **Science of the Total Environment**. 815: 152841.

- 10- Cunha WA, Freitas ÍN, Gomes LAS, Gonçalves SO, Montalvão MF, **Ahmed MAI**, Gomes AR, Luz TMD, Araújo APDC, Malafaia G. **2022**. From carrion-eaters to plastic material plunderers: Toxicological impacts of plastic ingestion on black vultures, *Coragyps atratus* (Cathartiformes: Cathartidae). **Journal of Hazardous Materials**. 424: 127753.
- 11- Malafaia G, **Ahmed MAI**, Souza SS, Rezende FNE, Freitas ÍN, da Luz TM, da Silva AM, Charlie-Silva I, Braz HLB, Jorge RJB, Sanches PRS, Mendonça-Gomes JM, Cilli EM, Araújo APDC. **2022**. Toxicological impact of SARS-CoV-2 on the health of the neotropical fish, *Poecilia reticulata*. **Aquatic Toxicology**. 245: 106104.
- 12- **Ahmed MAI**, Vogel CFA, Malafaia G. **2022**. Short exposure to nitenpyram pesticide induces effects on reproduction, development and metabolic gene expression profiles in *Drosophila melanogaster* (Diptera: Drosophilidae). **Science of Total Environment**. 804: 150254.
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