Curriculum Vitae

Contact information

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Mailing address: Plant Protection Department, Faculty of Agriculture, Assiut University, 71526 Assiut, Egypt

Nationality: Egyptian

Birth Date: February, 8, 1973 at Sohag city

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Qualifications

May 2021 **Professor** of Pesticides, Plant Protection Department, Faculty of Agriculture, Assiut University, Assiut, Egypt.

May 2016 **Associate Professor** of Pesticides and Entomology, Plant Protection Department, Faculty of Agriculture, Assiut University, Assiut, Egypt.

Marsh, 2011 **Ph.D.,** in Agricultural Sciences (Pesticides and Entomology), Laboratory of Receptors and Membrane Ion Channels (RCIM), UPRES EA 2647 / USC INRA 2023 IFR 149 QUASAV, UFR Sciences, University of Angers, **France**.

Dissertation title: "Study of the Neurotoxic Mode of Action of the Repellent, DEET used alone and Combined with an Insecticide on Acetylcholinesterase Activity of DUM Neurons of the Cockroach *Periplanet americana*". Prof. Bruno LAPIED, thesis advisor.

April, 2001 **M.Sc.,** in Agricultural Sciences (Plant protection, Economic Entomology) April 2001, from the Faculty of Agriculture, Assiut University, Assiut, **Egypt**.**Thesis title:** "Interaction between Selected Grain Sorghum Varieties to Infestation by the Pink Borer, *Sesamia cretica* Lederer and

Faunistic Diversity of Associated Insecta and Araneida" Prof. Ahmed NEGM, thesis advisor.

June, 1996 **B.Sc.,** in Agricultural Sciences (Plant Protection), from the Faculty of Agriculture, Assiut University, Assiut, **Egypt**, with general grade Very Good (Honor degree).

Occupation

March 2016 **Visitor Research,** Institute of Zoology, University of Graz (Karl-Franzens-Universität) 2, A-8010 Graz / Austria (Invitation by Prof. Dr. Karl Crailsheim).

Feb. to Sept. 2014 **Postdoctoral Researcher,** Laboratory of Receptors and Membrane Ion Channels (RCIM), UPRES EA 2647 / USC INRA 2023, IFR 149 QUASAV, UFR Sciences, University of Angers, France. Six months Postdoctoral Fellowship from the Ministry of Higher Education and Scientific Research, Egypt.

Oct. to Dec. 2011 **Visitor Research,** Laboratory of Receptors and Membrane Ion Channels (RCIM), UPRES EA 2647 / USC INRA 2023, IFR 149 QUASAV, UFR Sciences, University of Angers, France.

2011- 2014 **Assistant Professor (Lecturer)** of Economic Entomology and Insecticides, Plant Protection Department, Faculty of Agriculture, Assiut University, Assiut, Egypt

2007- 2011 **Ph.D.** Graduate Student, Laboratory of Receptors and Membrane Ion Channels (RCIM), UPRES EA 2647 / USC INRA 2023, IFR 149 QUASAV, UFR Sciences, University of Angers, France. Four years Ph.D. Scholarship from the Ministry of Higher Education and Scientific Research, Egypt.

2001- 2006 **Assistant lecturer,** Plant Protection Department, Faculty of Agriculture, Assiut University, Assiut, Egypt, (Taught, Principles of Entomology, Economic Entomology, Insect Physiology, Biological Control of Insects, Insecticides Toxicology, Insect Biochemistry, Insect Chemical Control).

1996- 2001 **Demonstrator,** Plant Protection Department, Faculty of Agriculture, Assiut University, Assiut, Egypt.

Professional experience and skills

- Director of the Public Service Center to support Entrepreneurs at Assiut University from 2019 to present.
- Director of the Information Technology Unit (ITU) Faculty of Agriculture, Assiut University from 2013 to present.

- Director of Quality Assurance Unit, Faculty of Agriculture, Assiut University from 2015 to February 2018.
- Training of smallholder farmers in IPM, harvest and post-harvest practices through field visits to farmers in Assiut, Minya, Beni Suef, Sohag and Asswan governorates (**ERAS IPM consultant**) from 2019 to present.
- Coordinator of training of pesticide dealers of the Pesticide Committee at the Ministry of Agriculture from 2011 to present.
- Training coordinator for the Safe Use of Pesticides (SUP) of the Pesticides Committee at the Ministry of Agriculture in Assiut Governorate from 2011 to present.
- Technical Translator of Project AMAL in Qena and Sohag during 2015.
- Participated in Laboratory of Receptors and Membrane Ion Channels, UFR Sciences, University of Angers, France, 2011.
- Experience in electrophysiological (patch-clamp and oil-gap), Ca^{2+} imaging and biochemical techniques. Laboratory of Receptors and Membrane Ion Channels, UFR Sciences, University of Angers, France.
- Technique of culture the DUM neurons of the insects central nerves system. Laboratory of Receptors and Membrane Ion Channels, UFR Sciences, University of Angers, France.
- Analytical chemistry applied to the analysis of volatile compounds. National Engineering School of Technical Agriculture and Food Industries (ENITIAA), University of Nantes, Nantes, France.
- Phylogeny and taxonomy, tools, concepts and methods. Biology Department, UFR Sciences, University of Angers, Angers, France.
- Statistical Software: Training on “Programming using Graph Pad Prism and SPSS” (6 credit hours graduate level course, University of Angers).
- Taught the practical classes of the following courses (1996-2007): Principles of Entomology, Economic Entomology, Insect Physiology, Biological Control of Insects, Toxicology of Insecticides and Insect Chemical Control.
- ICDL “International Computer Driven License” Harvard Graphics, SPSS, Adobe Photoshop, Graph Pad Prism, Adobe Illustrator, Microsoft Word, Excel, Power Point and Internet.
- Biodiversity and identification of *Aspergillus* species and practical detection and identification of their mycotoxins. Assiut University Mycological Centre (AUMC).
- Modern techniques in molecular biology and their practical applications. Assiut Molecular Biology Unit, Assiut University, Assiut, Egypt.
- Training course in electron microscopy (techniques and interpretation). Assiut Electronic Microscope Unit, Assiut University, Assiut, Egypt.

List of Publications

1. Ali, A. A., Al-kheit, E. F., El-zoghby, I., & **Abd-Ella, A. A.** (2024). Formaldehyde's Insecticidal Potential on Immature Stages of Red Palm Weevil (*Rhynchophorus ferrugineus*). *Aswan University Journal of Environmental Studies*, *5*(1), 15-26.
2. Saad, M. A., **Abd-Ella, A. A.**, Abduallah, G. A., Ezz El-Din, H. A., Mahmoud, H. A., & Omar, E. M. (2023). Effect of sublethal concentrations of some pesticides on physiological characters of honeybee workers under laboratory conditions. *Egyptian Academic Journal of Biological Sciences, F. Toxicology & Pest Control*, *15*(2), 1-13.DOI: 10.21608/EAJBSF.2023.306143
3. Saad, M. A., **Abd-Ella, A. A.,** Abdu-Allah, G. A., Ezz El-Din, H. E. D. A., Mahmoud, H. A., & Ahmed, A. M. (2023). Toxicological impact of certain pesticides on honeybee, *Apis melliferea* L. (Hymenoptera: Apidae) under laboratory conditions. *Assiut Journal of Agricultural Sciences*, *54*(3), 65-77. DOI: 10.21608/AJAS.2023.212231.1257
4. Rafeek, A., Hesham A. E. L., **Abd-Ella A. A.**, Mahmoud G. A. E., & Elfarash A. E. **(2023).** Toxicity evaluation and genetic improvement of *Bacillus thuringiensis* isolated from different regions in Assiut, Egypt against mosquito larvae. *Journal of Pure and Applied Microbiology*, *17*(1), 143-154. doi: 10.22207/JPAM.17.1.03
5. **Abd-Ella, A.,** Gaber A.S., Abdel-Rahman Y.A., Abobaker A.A.S., Elghareeb T.A. **(2022).** Field Efficiency of nano and conventional formulations of certain neonicotinoid insecticides against Oleander scale insect, *Aspidiotus nerii* Bouché (Hemiptera: Diaspididae) on certain olive varieties. *Egyptian Academic Journal of Biological Sciences F. Toxicology & Pest* Control 14(2):13-23.
6. **Abd-Ella, A.,** Mubarak, A. E. S., El-Zoghby, I. R., & Sallam, A. A. **(2022).** Toxicity evaluation of certain pesticides against green lacewing, *Chrysoperla carnea* (Stephens)(Neuroptera: Chrysopidae) under laboratory conditions. *Assiut Journal of Agricultural Sciences*, 53 (2):52-64.
7. **Abd-Ella, A.,** Abu Omira, H. T., Abou-Elhagag, G. H., Mahmoud, M. A. E. H., & Mohamed, I. A. W. **(2022).** Influence of Pomegranate Butterfly, Virachola livia (Klug)(Lepidoptera: Lycaenidae) Infestation on Chemical Composition of Pomegranate Fruits. *Assiut Journal of Agricultural Sciences*, *53*(2), 39-51.
8. **Abd-Ella, A.,** Metwally, S., El-Ossaily, Y., Elrazek, F., Aref, S., Naffea, Y., & Abdel-Raheem, S**. (2022).** A review on recent advances for the synthesis of bioactive pyrazolinone and pyrazolidinedione derivatives. *Current Chemistry Letters*, *11*(2), 157-172. *DOI: **10.5267/j.ccl.2022.2.004*** **(Q4).**
9. Abdel-Raheem, S., El-Dean, A., Hassanien, R., El-Sayed, M., **Abd-Ella, A.,** Zawam, S., & Tolba, M. **(2022).** Synthesis of new distyrylpyridine analogues bearing amide substructure as effective insecticidal agents. ***Current Chemistry Letters***, *11*(1), 23-28. DOI: **10.5267/j.ccl.2021.10.001(Q4).**
10. Abdel-Raheem S.A.A. , Kamal El-Dean A.M., Abd ul-Malik M.A., **Abd-Ella A.A.**, Al-Taifi E.A., Hassanien R., El-Sayed M.E.A., Mohamed S.K., Zawam S.A., Bakhit E.A. **(2021).** A concise review on some synthetic routes and applications of pyridine scaffold compounds. ***Current Chemistry Letters,* 10(4):337-362.** DOI: **10.5267/j.ccl.2021.7.001 (Q4).**
11. Ali S.A., Kamal El-Dean A.M., Hassanin R., El-Sayed M., **Abd-Ella A.A. (2021).** Synthesis and spectral characterization of selective pyridine compounds as bioactive agents. ***Current Chemistry Letters,*** 10 :255-260. DOI: 10.5267/j.ccl.2021.2.001**(Q4).**

12. Ali S.A., Kamal El-Dean A.M., Hassanin R., El-Sayed M., **Abd-Ella A.A**. (2021). Synthesis and toxicological studies on distyryl-substituted heterocyclic insecticides. ***European Chemical Bulletin,* 10(4): 225-229.** doi.org/10.17628/ecb.2021.10.225-229 **(Q4).**
13. Ali S.A., Kamal El-Dean A.M., Hassanin R., El-Sayed M., **Abd-Ella A.A. (2021).** Synthesis and characterization of some distyrylderivatives for agricultural uses. ***European Chemical Bulletin,*** 10(1):35-38. **(Q4).**
14. Ali S.A., Kamal El-Dean A.M., Hassanin R., El-Sayed M., **Abd-Ella A.A.** (2020). Synthesis and biological activity of 2-((3-Cyano-4,6-distyrylpyridin-2- yl) thio) acetamide and its cyclized form. ***Algerian Journal of Biosciences***, 1(2):46-50.
15. **Abd-Ella A.A. (2020).** Toxicity and field efficiency of certain insecticides against the subterranean termite, *Psammotermes hypostoma* Desneux (Isoptera: Rhinotermitidae). ***Egyptian Academic Journal of Biological Sciences, F, Toxicology & Pest Control,*** 12(2): 203-213.(In Press)
16. **Abd-Ella A.A**., Abdel-Rahman Y.A., Abou-Elhagag G.H. Gaber A.S. (2020). Population fluctuations of oystershell scale insect, *Lepidosaphes ulmi* (L.) (Homoptera: Diaspididae) on certain olive varieties and the factors affecting its population. ***Journal of Phytopathology and Pest Management***, 7(1):43-53. **(IF=0.454)**
17. **Abd-Ella A.A.,** Metwally S.A., El-Ossaily Y.A., Abd Elrazek F.M., Aref S.A., Naffea Y.A. (2020). Insecticidal activity of some 3, 5-pyrazolidinedione derivatives against cotton leaf worm, *Spodoptera littoralis* (Boised.) (Lepidoptera: Noctuidae). ***Assiut University Journal of Chemistry* (AUJC) 49(1) :1-11.**
18. Kamal El-Dean A.M., **Abd-Ella A.A**., Hassanin R., El-Sayed M., Ali S.A. (2019). Design, synthesis, caracterization, and insecticidal bioefficacy screening of some new pyridine derivatives. ***ACS Omiga,*** 4, 8406−8412. doi: 10.1021/ acsomega.9b00932 **(IF=2.58) (Q1).**
19. Kamal El-Dean A.M., **Abd-Ella A.A**., Hassanin R., El-Sayed M., Zaki R., Ali S.A. (2019). Chemical design and toxicity evaluation of new Pyrimidothieno-tetrahydroisoquinolines as potential insecticidal agents. ***Toxicology Reports,* 6(2019):100-104** doi.org/10.1016/j.toxrep.2018.12.004 **(IF=1.70) (Q1).**
20. Abdel-Rahman Y.A., **Abd-Ella A.A**., Gaber A.S., Abou-Elhagag G.H. (2018). Impact of weather factors and certain insecticides on the population density of cotton whitefly, *Bemisia tabaci* (Genn.) (Homoptera: Aleyrodidae). ***Journal of Phytopathology and Pest Management*, 5**(1) : 35-48. **(IF=0.454)**
21. Gameel S.M., **Abd-Ella A.A.**, Tolba E.F. (2017). Date Palm Host Preference of the Greater Date Moth, *Arenipses sabella* Hampson (Lepidoptera: Pyralidae) at New Valley Governorate-Egypt. ***Egyptian Academic Journal of Biological Sciences, A Entomology***, 10(7): 221-230.
22. BenzidaneY., Goven D., **Abd-Ella A.A.**, Deshayes C., Lapied B., Raymond V. (2017). Subchronic exposure to sublethal dose of imidacloprid changes electrophysiological properties and expression pattern of nicotinic acetylcholine receptor subtypes in insect. ***Neurotoxicology,* 62**: 239-247**. (IF=3.379) (Q1)** http://dx.doi.org/10.1016/j.neuro.2017.08.001.
23. Abdallah G.M., **Abd-Ella A.A.** (2017)**.** Efficiency of certain insecticides against *Retithrips syriacus* (Mayet) (Thripidae: Thysanoptera) under laboratory and field conditions. ***Journal of Phytopathology and Pest Management***, **4**(1): 58-68. **(IF=0.454).**
24. Omar E., **Abd-Ella A.A.**, Khodairy M., Brodschneider R., Crailsheim K. & Moosbeckhofer R. (2017). Influence of different pollen diets on the development of

hypopharyngeal glands and size of acid gland sacs in caged honey bees (*Apis mellifera*). ***Apidologie***, **48**(4):425–436. DOI: 10.1007/s13592-016-0487-x **(IF=2.196) (Q1)**

25. Bakhite A.A., **Abd-Ella A.A.**, El-Sayed M., Ali S.A. (2017). Pyridine Derivatives as Insecticides. Part 2: Synthesis of some piperidinium and morpholinium cyanopyridinethiolates and their insecticidal activity. ***Journal of Saudi Chemical Society***, **21**(1) : 95-104. DOI.org/10.1016/j.jscs.2016.02.005. **(IF=2.887) (Q2)**

26. **Abd-Ella A.** (2016). Evaluation of certain neonicotinoid insecticide seed treatments against cereal aphids on some wheat cultivars. ***Journal of Phytopathology and Pest Management***, **3**(1) : 21-33. **(IF=0.454)**

27. **Abd-Ella A**. (2015). Efficacy of emamectin benzoate, pyridalyl and methoxyfenozide on pomegranate butterfly, *Virachola livia* (Klug) (Lepidoptera: Lycanidae) in cultivated and reclaimed lands. ***Journal of Phytopathology and Pest Management***, **2**(3) : 32-42. **(IF=0.454)**

28. **Abd-Ella A**. (2015). Susceptibility of the pomegranate whitefly, *Siphoninus phillyreae* (Haliday) (Homoptera: Aleyrodidae) and its parasitoid, *Encarsia inaron* (Walker) (Hymenoptera: Aphelinidae) to certain insecticides under laboratory conditions. ***Egyptian Journal of Biological Pest Control***, **25**(3):689-695. **(IF=0.184) (Q3)**

29. **Abd-Ella A**., Stankiewicz M., Mikulska K., Nowak W., Pennetier C., Goulu M., Fruchart-Gaillard C., Licznar P., Apaire-Marchais V., List O., Corbel V., Servent D., Lapied B. (2015). The repellent DEET potentiates carbamate effects via insect muscarinic receptor interactions: an alternative strategy to control insect vector-borne diseases. ***PloS One***, DOI:10.1371/journal.pone.0126406. **(IF=2.806) (Q1)**

30. Gaber A.S., **Abd-Ella A.A**., Abou-Elhagag G.H., Abdel-Rahman Y.A. (2015). Field efficiency and selectivity effects of selected insecticides on cotton aphid, Aphis gossypii Glover (Homoptera: Aphididea) and its predators. ***Journal of Phytopathology and Pest Management***, **2**(1) : 22-35. **(IF=0.454)**

31. **Abd-Ella A.A.** (2015). Effect of several insecticides on pomegranate aphid, *Aphis punicae* (Passerini) (Homoptera: Aphididae) and its predators under field conditions. ***Bulletin OEPP/EPPO Bulletin,*** **45** (1) : 90-98. **(Q2)**

32. Bakhite A.A., **Abd-Ella A.A.**, El-Sayed M., Ali S.A. (2014). Pyridine Derivatives as Insecticides. Part 1: Synthesis and toxicity of some pyridine derivatives against cowpea aphid, *Aphis craccivora* Koch (Homoptera: Aphididae). ***Journal of Agricultural and Food Chemistry***, **62**: 9982-9986. **DOI:** 10.1021/jf503992y **(IF=3.154) (Q1)**

33. **Abd-Ella A.** (2014). Toxicity and persistence of selected neonicotinoid insecticides on cowpea aphid, *Aphis craccivora* Koc (Homoptera: Aphididae). ***Archives of Phytopathology and Plant Protection***, **47**(3): 366-376. **(IF=0.316) (Q3)**

34. Lavialle-Defaix C., Apaire-Marchais V., Legros C., Pennetier C., **Mohamed A.**, Licznar P., Corbel V., Lapied B. (2011). *Anopheles gambiae* isolated neurons: a new biological model for optimizing insecticide effects. ***Journal of Neuroscience Methods***, **200**:68-73. DOI.org/10.1016/j.jneumeth.2011.06.003 **(IF=2.256). (Q2)**

Conferences & Symposia

35. Gameel S., **Abd-Ella A.**A. (2016). Date palm host preference of the greater date moth, *Arenipses sabella* Hmpson (Lepidoptera: Pyralidae) at the New Valley-Egypt. 2nd International Conference for Date Palm (ICDP 2016), At Qassim University, Kingdom of Saudi Arabia, from 10-12 October. http://www.cavm.qu.edu.sa/ICDP2016ar/Documents/english%20abstract.pdf
36. **Abd-Ella A.**, Lapied B. (2009). L'acétylcholinestérase : une cible insecticide pour le répulsif anti-insecte. 2e Journée des Doctorants de l'UFR QUASAV, 9 Octobre, Angers, France. (Oral Communication).
37. Apaire-Marchais V., **Abd-Ella A.,** Gruau C., Pennetier C., Licznar P., Corbel V., Lapied B. (2010). Optimisation des traitements utilises en lutte anti-vectorielle : associations synergiques répulsif / Insecticide. Journées conjointes Société française de mycologie médicale, Société française de parasitologie, Société de médecine des voyages, 22-23 mai, Angers, France.
38. **Abd-Ella A**., Stankiewicz M., Licznar P., Apaire-Marchais V., Pennetier C., Corbel V., Thany S., Lapied B. (2010). Positive allosteric modulation of muscarinic receptors is responsible for the synergistic effect occurring between the repellent DEET and carbamate in insect central nervous system. 7th FENS Forum of European Neurosciences, July 3-7, Amsterdam, the Netherlands.
39. **Abd-Ella A.**, Thany S., Lapied B. (2009). Unexpected dual neurotoxic effects of the most commonly used repellent DEET on insect central nervous system. 10ème Rencontre du Club de Neurobiologie des Invertébrés, 14-15 mai, Dijon, France.
40. **Abd-Ella A.** (2003). Ecology of aphidophagous coccinellid, *Coccinella undecimpunctata* L. (Coleoptera: Coccinellidae). 1st Conference of Junior Researchers, 13-14 April, Assiut, Egypt.

Projects Research

- **Abd-Ella A.** (2018- 2020). Evaluation of some insecticides against sand termite, *Psammotermes hypostoma* Desneux (Isoptera: Rhinotermitidae) at New Valley governorate. Regional Council Agricultural Research and Extension (Ministry of Agriculture Fund, Egypt).
- Abou-Ghadeer, M. F., Manaa S. H., Nasser M. K. and Waly E.A., **Abd-Ella A.** (1998- 2000). Integrated Management of Faba Bean Pests in Upper Egypt. Regional Council Agricultural Research and Extension (Ministry of Agriculture Fund, Egypt).
- Abou-Ghadeer, M. F., Manaa S. H., Nasser M. K. and Elghareep A. M., **Abd-Ella A.** (2000- 2005). Higher Yield of Canola Seeds through Successful IPM Strategy and Insect Pollinators in New Reclaimed Land of Middle Egypt. Regional Council Agricultural Research and Extension (French Side Fund).
- Abou-Ghadeer, M. F., Manaa S. H., Nasser M. K. and Elghareep A. M., **Abd-Ella A.** (1997-2000). Ecological, biological, toxicological and control studies of citrus leaf miners (CLM) *Phylocnistis citrella* (Lepidoptera: Phylocnistidae) in Middle Egypt.

Regional Council Agricultural Research and Extension (Ministry of Agriculture Fund, Egypt).

Memberships in Professional Societies

- Federation of European Neuroscience Societies (FENS)- 2008-present
- Bulleting Entomological Society of Egypt
- Egyptian Journal of Biological Control
- Arab Society for Plant Protection

References

- **Prof. Bruno LAPIED** (Professor)
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I hereby certify that all information presented herein are true and up-to date

Name: Prof. Dr. Aly Ahmed Abd-Ella Mohamed **Signature:**

Date: Septembre 5, 2024