***CURRICULUM VITAE***



**Prof. Fatma El-Zahraa Abdel-Hameed Abdel-Aziz**

**Professor of Invertebrates**

**Zoology and Entomology Department Faculty of Science Assiut University**

***Personal information:***

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| **Name:** | **Fatma El-Zahraa Abdel-Hameed Abdel-Aziz Abdel-Jalil.** |
| **Date & Place of Birth:** | **February 15,1980,Esna, Luxor, Egypt** |
| **Sex:** | **Female** |
| **Citizenship at birth:** | **Egyptian** |
| **Present Citizenship:** | **Egyptian** |
| **Marital status** | **Married** |
| **Mother language knowledge** | **Arabic (Excellent)** |
| **Other language knowledge** | **English (Read& Write: Excellent -Speak: Very good) and French.** |
| **Computer skills** | **Excellent** |
| **Present position:** | **Assistant Professor of Invertebrate** |
| **Address:** | **Department of Zoology,**  **Faculty of Science, AssiutUniversity,**  **Assiut, Egypt**  **TEL. 088 2412154 Work**  **Mobile: 01003838579:01125853555**  **E-mail:** [**F\_Abdelhameed@yahoo.com**](mailto:F_Abdelhameed@yahoo.com):  [**fatma.abdelgalil1@science.aun.edu.eg**](mailto:fatma.abdelgalil1@science.aun.edu.eg) |

**Academic Qualifications:**

***Ph.D. Zoology*** (Invertebrates), Assiut University, Egypt, 2012

***M. Sc. Zoology*** (Parasitology), Assiut University, Egypt, 2008.

***B. Sc.Zoology***, Faculty of Science, Assiut University, Egypt, 2002.

**Academic Position:**

* ***Jan 2025:*** Professor invertebrates Zoology Department Faculty of Science Assiut University.

- ***Des. 2019- Dec 2024:***  Assistant Professor invertebrates Zoology Department Faculty of Science Assiut University

***- Des. 2012***:- Lecturer, Department of Zoology, Faculty of Science, Assiut University, Assiut, Egypt..

***-May 2008 - Oct. 2012***:- Lecturer Assistant, Department of Zoology, Faculty of Science, Assiut University, Assiut, Egypt.

***-Oct. 2002 –Apr.2008***:-Demonstrator, Department of Zoology, Faculty of Science, Assiut University, Assiut, Egypt.

**List of Publications:**

1. **Abd El-Wakeil,K.,F.,Obuid-Allah,A.,Mohamed,A. and Abd El-Aziz,F.,A.(2013):**Community structure of molluscans in River Nile and its branches in Assiut governorate, Egypt, Egyptian Journal of Aquatic Research.
2. **Abd El-Wakeil,K.,F., Obuid-Allah, A., Mohamed, A. and Abd El-Aziz,F.,A.(2014):** A comparison of molluscan communities in a section of the Nile River at Assiut, Egypt, with different chemical and thermal pollution, Molluscan Research .
3. **Abd El-Aziz, F.,A.,Abd El-Wakeil,K.,F.,Obuid-Allah, and Ramadan, F,O.,(2015):** Occupancy of gastropod shells by the hermit Crab *Clibanarius erythropus* (Crustacea, Anomura) inhabiting the Mediterranean Sea coast of Libya.International Journal of Advanced Research.Vol. 3, Issue11, Pp.754-762.
4. **Abd El-Aziz, F.,A.,(2018):** Morphological Characterization of Arthropod Ectoparasites by Scanning Electron Microscopy. Egypt. Acad. J. Biolog. Sci., 10(1): 93- 104 .
5. **Abd El-Aziz, F.,A.,(2018):**Light and scanning electron microscopic studies of the developmental stages of *Rhabditis* sp. (Nematoda: Rhabditidae) naturally infecting the earthworm *Allolobophora caliginosa* (Annelida: Clitellata) in Egypt.Egyptian Journal of Zoology,70:165-180.
6. **Abd El-Aziz, F.,A., and El Shehaby ,D.M.,(2019):** Effect of Arthropods on the Decomposition of Rat Carrions in an Aerated Environment in Spring Season in Assiut, Egypt. Egypt. Acad. J. Biolog. Sci., 11(1): 1- 12 .
7. **Abd El-Aziz, F.,A., Doaa M. El Shehaby, Shimaa A. Elghazally and Helal F. Hetta,(2019):** Toxicological and epidemiological studies of scorpion sting cases and morphological characterization of scorpions (*Leiurus quinquestriatus* and *Androctonus crassicauda*) in Luxor, Egypt. Toxicology Reports 6 : 329–335. ([**Impact factor 2.7**](http://cirworld.org/if)).
8. **Abd El-Aziz, F.,A., &Shymaa Ryhan Bashandy.,(2019):** Dose-dependent effects of Pseudomonas trivialis rhizobacteria and synergistic growth stimulation effect with earthworms on the common radish. Rhizosphere, 10 (2019) 100156. ([**Impact factor 3.11**](http://cirworld.org/if)).
9. **Noura H. Abd Ellah, Abd El-Aziz, F.,A., Sara A. Abouelmagd, Basma N. Abd El-hamid , Helal F. Hetta.,(2019):** Spidroin in Carbopol-Based Gel Promotes Wound Healing in Earthworm’s Skin Model. Drug Development Research. ([**Impact factor 3.23,**](http://cirworld.org/if)**).**
10. **Abd El-Aziz, F.,A.,,Soheir Mustafa Kasem , Marwa F.Ali , Shereen M. Mohamed, and Doaa M. El Shehaby(2021):**Rational of Invertebrates and Herbs Extracts for Protection and Management of Coronavirus (COVID 19). Egypt. Acad. J. Biolog. Sci., 13(1):29-47.
11. **Abd El-Aziz, F.,A., Marwa F. Ali,(2021):**Towards Study of UV-C Radiation Effect on Earthworms and Isopods Via Electron Microscopy. Egypt. Acad. J. Biolog. Sci., 13(2): 33-46.
12. **Abd El-Aziz, F.,A., Soheir Mustafa Kasem and Noha Esmael Ebrahem, (2022):** Evaluation of The Toxicity of Scorpion Venom and Digoxin on Human Cardiovascular System and in Decomposition Arthropods Succession Using Rat Carrions. Egypt. Acad. J. Biolog. Sci., 14(1): 1-16.
13. **Abd El-Aziz, F.,A., Helal F. Hetta., Basma N. Abd El-hamid , Noura H. Abd Ellah,(2022):**Antibacterial and wound-healing potential of PLGA/spidroin nanoparticles: a study on earthworms as a human skin model. · Nanomedicine <https://doi.org/10.2217/nnm-2021-0325>
14. **Abd El-Aziz, F.,A., Seham Mahmoud Eldeeb, Nora Z. Abdellah3,Eman S. Shaltout3, and Noha Esmael Ebrahem(2022):** Influence of Scorpion Venom on Decomposition and Arthropod Succession Using Rabbits' CarrionsEgypt. Acad. J. Biolog. Sci., 14(1): 209-219.
15. **Abd El-Aziz, F.,A., Noha Esmael Ebrahem and Hani Nasser Abdelhamid(2022):** A comparative study of the toxic effect of ZIF‑8 and ZIF‑L on the colonization and decomposition of shaded outdoor mice carrions by arthropods. Scientifc Reports , 12:14240. https://doi.org/10.1038/s41598-022-18322-5
16. **Shimaa H. Salem, Saad S. El‑Maraghy, Ahmed Y.Abdel‑Mallek, MohamedA.A.Abdel‑Rahman, Emad H. M. Hassanein, OsamaA.Al‑Bedak5 &Abd El-Aziz, F.,A., (2022):** The antimicrobial, antibioflm, and wound healing properties of ethyl acetate crude extract of an endophytic fungus Paecilomyces sp. (AUMC 15510) in earthworm model. Scientifc Reports ,12:19239 <https://doi.org/10.1038/s41598-022-23831-4>
17. **Abd El-Aziz, F.,A., Awatief F. Hifney, Mohamed Mohany, Salim S. Al-Rejaie, Artur Banach, Ahmed M. Sayed,(2023):** Insecticidal activity of brown seaweed (Sargassum latifolium) extract as potential chitin synthase inhibitors: Toxicokinetic and molecular docking approaches. South African Journal of Botany. 160, 645-656.
18. **Alaa M. Mohamed , Ghada Abd-Elmonsef Mahmoud , Abd El-Aziz, F.,A., and Ahmed M. Sayed, ,(2023):** Screening of Bacterial Isolates for Protease Production with Special Reference to Molecular Identification of Highly Producer Strains. Assiut University Journal of Applied Molecular Biology (JAMB). Vol. 1…..(1): Sep.
19. **Abd El-Aziz, F.,A., Asmaa F.A. Dawood, Leila H. Sayed and Asmaa R. Abdel- Malek ,(2023):** Assessment of Morphological and Histological Damages in Earthworms (*Aporrectodea caliginosa*) Exposed to Organophosphate Insecticide, Egyptian Academic Journal of Biological Sciences,B. Zoology.15(2):53-64.
20. **Abd El-Aziz, F.,A., Asmaa F.A. Dawood, Shereen M. Refaie and Shahina Khan,(2023):** Potentiality Assessment of The Activity of Scorpion Venom as An Insecticide Towards Spodoptera frugiperda: Histological and Electron Microscopy Studies. Egyptian Academic Journal of Biological Sciences. D. Histology & Histochemistry. 15(2): 89-100.
21. **Dawood, A.F.A. , Refaie, S. M. ,Khan, S.,Hussaini , S. F. , Abd El-Aziz F. A.(2024).** Therapeutic Potential of Chitosan Dressing for Stab Injury Wound Healing in an Earthworm Model.Egyptian Journal of Aquatic Biology & Fisheries. Vol. 28(1): 1023 – 1039 .
22. **Abd El-Aziz, F.,A., and Hani Nasser Abdelhamid (2024):** Cerium-based metal–organic frameworks (MOFs) as a sustainable approach to mitigating environmental stressinduced intestinal ulcers in earthworms. Appl Organomet Chem. 2024; e7520. John Wiley & Sons, Ltd. 1 of 9: <https://doi.org/10.1002/aoc.752>
23. **Abd El-Aziz, F.,A., Helal F. Hetta, Noura H. Abd Ellah, Mohamed Abd El-Aal (2024):** Antibacterial and healing potential of Zn-Al LDHs/cellulose acetate nanocomposite in burns and wounds: A study on earthworms as a human skin model. Journal of Inorganic and Organometallic Polymers and Materials.
24. **Hamad, D., F.A. Dawood, A., Ahmed, H., A. Abd El-Aziz, F. E. (2024):** 'A review on Chitosan and Camel milk/Metal-Organic Frameworks (MOFs): A Synergistic Approach to Biomedical and Environmental Challenges', Egyptian Journal of Chemistry, (), pp. -. doi: 10.21608/ejchem.2024.281998.9566
25. **Rabab M. Thabit1 , Fatma El‑Zahraa A. Abd El‑Aziz2 , A. Abu El‑Fadl1 , A. A. Abu‑Sehly1 and Ahmed M. Sayed3\* (2024)**:Synthesis and evaluation of nanosized aluminum MOF encapsulating Umbelliferon: assessing antioxidant, anti-infammatory, and wound healing potential in an earthworm model. BMC Biotechnolog
26. **Asmaa F.A. Dawood[a,b], Dalia A. Hamad[c], Fatma El-Zahraa A. Abd El-Aziz[d], Asmaa R. Abdel- Malek[d], Salma O. Taha[a], Abeir B. Hasan[a] and Mostafa A. Asmaey\*[e](2024)**: Impact of TiO2 nanoparticles as Protective Sunscreen Cream on Earthworms via Histological and Electron Microscopic Studies. chemistry select.
27. **Abd El-Aziz, F.E.-Z.A., Dawood, A.F.A., Refaie, S.M., ...Hasan, A.B., Rabab, M.A(2024):** Forensic Importance of Aquatic Arthropods and Molecular Biomarkers in Criminal Investigations on Floating Cadavers: A Narrative Review. Egyptian Journal of Aquatic Biology and Fisheries28(5), pp. 2051-2071
28. **Fatma, El‐Zahraa, A., Abd, El‐Aziz.** (2024). Estimating the role of arthropod succession in predicting the postmortem interval of indoor drowned and slaughtered rat cadavers. Egyptian Journal of Zoology, 0(0):0-0. doi: 10.21608/ejz.2024.292787.1116
29. **Fatma El-Zahraa A. Abd El-Aziz¹\* , Asmaa F.A. Dawood²³ , Shahina Khan², Shereen Mahmoud Refaie², Aliya Elamin Mohamed Elbadwi², Mostafa A. Asmaey⁴ , D. Hamad 5 (2024):** Forensically Importance of Beetle (Dermestids Maculatus) on Rat Carcasses ZnCoS Nanoparticles Toxicity at Different Decomposition Stages During Winter Season. Egyptian Academic Journal of Biological Sciences,B. Zoology.

**Work Experience:**

-Teaching of the following courses in the faculties of Science, Education, Pharmacy, Agriculture and Veterinary medicine, Assiut University, Egypt

* Forensic Entomology
* Invertebrates
* General Zoology
* Animal Taxonomy
* Invertebrate Ecology
* Soil Biology
* Freshwater Ecology
* Invertebrate Taxonomy

**Articles evaluated by Dr. Fatma**

* **Journal of Advances in Biology:** "Comparative Modeling and Domain Transition Studies of Sequentially Varied Human Immunodeficiency Virus-1 Tat Consensus Protein Structures"
* **Ecotoxicology and Environmental Safety:**,2019' The anti-androgenic effects of cypermethrin mediated by non-classical testosterone pathway activation of mitogen-activated protein kinase cascade in mouse Sertoli cells.

**Conferences, Workshop and courses:**

* Conference of young researchers 2011 Faculty of Science, Assiut University
* Conference of Pharmaceutical Sciences 2010,Assiut University
* ICDL
* Three levels in the French language
* Training course of Application of Molecular in Biology
* Training program of Quality Standards in Teaching 1
* Training program of E- learning advanced
* Workshop on "Aquaponics and its role s an advanced aquaculture technique in sustainable development and job creation for young people"
* Workshop on " Biomarkers of Gentotoxicity in Fishes"
* Scientific Meeting "Update in Management of Rheumatic Diseases"
* Training course in Electron Microscopy "Techniques and interpretation"
* Protein Electrophoresis and its application, (02-03) October 2021. Attended and participated in the work shop at Fish Lap.,Zoology and Entomology dep., Faculty of Science, Assiut university.
* Isolation, culureing and banking of mesenchymal stem cells from adiopse tissue and compact bones. (15-16) March 2020. The organizer of the workshop, the Molecular Cell Biology Lab., Zoology and Entomology dep., Faculty of Science, Assiut university.
* مسابقه ايسف للعلوم والهندسة علي التوالي للاعوام 2022و2023 و2024 علي التوالي
* المؤتمر العلمي الثالث لمبادرة الباحث الصغير 16-4-2024
* اعداد مقترح لمشروع بحثي 13-14-9-2023
* ادارة الازمات 18-20 يوليو 2023
* تنظيم المؤتمرات العلمية 13-14-سبتمبر 2023
* التميز في التدريس الجامعي 25-26 اكتوبر 2024
* ثقافه الجودة 25- 26 اكتوبر 2024

**RESEARCH ACTIVITIES AND INTERESTS:**

* Utilization of nanoparticles to deliver natural anticancer products to fight cancer cells.
* Utilization of nanoparticles promotes wound healing.
* Natural Products and/or Isolated Compounds on Wound Healing
* The Therapeutic Wound Healing in earthworms Bioactivities of Various Medicinal Plants.
* UTILITY OF FORENSIC ENTOMOLOGY IN CRIME SCENE INVESTIGATION"

**MEMBERSHIP AND ACTIVITIES IN PROFESSIONAL ASSOCIATIONS**:

* Participation in the development of regulations and the establishment of laboratories at the college and university.
* Participation in the work of service and research units and various committees in the college, university and community
* Participation in the work of the Quality Assurance and Performance Development Unit at the college and university.
* Participation in scientific associations and associations, whether international or local.

**TRAINING COURSES:**

* Attended a Professional training session (15 hours) entitled: University Management.
* Attended a Professional training session (15 hours) entitled: International Publication of Research.
* Attended a Professional training session (15 hours) entitled: Research Team

Management.

* Attended a Professional training session (15 hours) entitled: Credit Hour System.

Attended a Professional training session (15 hours) entitled: Legal and Financial Aspects in University Environment.

* Extensive courses in French language from 1st level to3rd level.

**SUPERVISION:**

1) "1 student (PhD degree).

2) "4 students (Master degree).

**A list of M.Sc theses:**

1. **Faraj Omar Ramadan**: Morphological and Ecological Studies on Hermit Crab *Clibanarius erythropus* (Latreille, 1818) form the Mediterranean Sea Coast of Libya Supervised by:Prof.Dr.Ahmed H Obuid-Allah, Dr. Khaleid Fouad and **Dr. Fatma El-Zahraa A. Abdel-Aziz**
2. **Alaa M. Mohamed**: Isolation and purification of protease from different microbial sources to improve and accelerate wound healing process in earthworm model. Supervised by: **Dr.Fatma El-Zahraa A. Abdel-Aziz,** Dr.Ghada Abd-Elmonsef Mahmoud, and Dr.Ahmed M. Sayed.
3. **Ahmed Zakaria Ezz Eldeen Bahloo**: Biological evaluation of organic compounds extracted from some wild medicinal plants. Supervised by: Prof. Dr. Sayed abdelhameed sayed mousa, **Dr.Fatma El-Zahraa A. Abdel-Aziz**, Dr. Ahmed Mahmoud Mohamed Sayed ,Dr. Mostafa Abdelmoatamed Alham Asmaey.
4. **Mariem Amer Ahmed Rabab:** Supervised by: **Dr. Fatma El-Zahraa A. Abdel-Aziz,** Prof. Dr. Mona M. Atia**.**

**PhD degree**

**Ayat-Allah Mamdouh Mohamed Ahmed** Supervised by: Prof. Dr. Refaat M. Mahfouz **Dr. Fatma El-Zahraa A. Abdel-Aziz,** Dr. Ahmed B.M. Ibrahim.