



Cairo University

12613 Giza – Egypt

Dr. Amr Adel Abdel-Khalek
Lecturer, Dept. of Zool., Faculty of Science, Cairo University

Curriculum Vita



• Personal Info. :

- ◇ Full Name : Amr Adel Abdel Khalek.
- ◇ Gender : Male.
- ◇ Nationality : Egyptian.
- ◇ Date of birth : 11th, August 1984.
- ◇ Religion : Muslim.
- ◇ Marital status : Married.
- ◇ Current Appointment : Lecturer, Zoology Department, Faculty of Science, Cairo University.
- ◇ Specialization : Animal Ecology and environmental pollution.
- ◇ Address : El- Fardos city, in front of Dream Land, 6 October.

• Contact Info. :

- ◇ Home Tel. no. : (02) 35682334.
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• Scientific career:

◇ Qualification : Bachelor in Science from Faculty of Science, Cairo University, May 2005.

◇ Department : Zoology.

◇ Appreciation : Very Good.

◇ premaster in zoology (Animal Ecology) : October 2006 (Distinguish 89%).

◇ Pre-Master Courses: Radiobiology - Environmental Monitoring - Cytology - Ecological Studies - Vertebrates Taxonomy- Environmental Pollution – Water Pollution – Immunology - Hematology and Blood Chemistry - Nerve And Muscle Physiology - Desert Ecology - Marine Ecology - Protozoa And Invertebrate-Freshwater Ecology - Xenobiotic Metabolism Animal Behavior - Compative Anatomy – Endocrinology - Biostatistics - Computer Science – Germany languch.

◇ M. Sc. in zoology (Animal Ecology) : March 2009.

Ecological and biological studies on *Solea* species cultured in lake Quaroun, Egypt.

◇ Title of M. Sc. thesis : The aim of this thesis
Is to follow up and monitor a new transplanted fish species in lake Quaroun and measure the degree of lake contamination by using this species as a bio-indicator.

◇ Pre- Ph.D. in zoology (Animal Ecology) : July 2010 (Distinguish 93.2%).

◇ Pre- Ph.D. Courses : Environmental biotechnology- Avian physiology and ecology- Ecology of parasites- Fish ecology- Animal behavior and psychology- Oceanography- Mammology- The groundwater pollution and remediation.

◇ Ph. D. in zoology (Animal Ecology) : March 2012.

Ecological and biological studies on wild and cultured fish at El-Fayoum province.

◇ Title of Ph. D. thesis : The aim of this thesis
•Assess the impact of pollution in different aquatic habitats that undergoes a complex pollution situation.
•Develop biological monitoring techniques based on fish that offers the possibility of checking water pollution.
•Shed more light on the impact of metals accumulation in fish edible tissues on the human health hazard.

• List of Publications:

◇ Omar, W.A.; Zaghoul, K.H.; Abdel-Khalek, A.A. and Abo Hegab, S. (2008): **Genotoxicity and phylogenetic relations of *Solea* species from two different aquatic habitats, Egypt. Egypt. J. Zool., 51: 461-478.**

◇ Zaghoul, K.H.; Omar, W.A.; Abdel-Khalek, A.A. and Abo Hegab, S. (2011): **Ecological monitoring of Mediterranean *Solea aegyptiaca* transplanted into Lake Qaroun, Egypt. Australian Journal of Basic and Applied Sciences, 5(7): 851-862.**

◇ Omar, W.A.; Zaghoul, K.H.; Abdel-Khalek, A.A. and Abo Hegab, S. (2012): **Genotoxic effects of pollution in two fish species; *Oreochromis niloticus* and *Mugil cephalus* from highly degraded aquatic habitats at El-Fayoum province, Egypt. Mutation Research 7 (46):7–14.**

◇ Omar, W.A.; Zaghoul, K.H.; Abdel-Khalek, A.A. and Abo Hegab, S. (2013): **Risk Assessment and Toxic Effects of Metal Pollution in Two Cultured and Wild Fish Species from Highly Degraded Aquatic Habitats. Arch Environ Contam Toxicol 65:753–764.**

- ◇ **Abdel-Khalek, A.A. (2015): Risk Assessment, Bioaccumulation of Metals and Histopathological Alterations in Nile tilapia (*Oreochromis niloticus*) Facing Degraded Aquatic Conditions. Bull Environ Contam Toxicol 94:77–83.**
- ◇ **Abdel-Khalek, A.A.; Kadry, M.A.M; Badran, S.R. and Marie, M-S. S. (2015): Comparative toxicity of copper oxide bulk and nano particles in Nile Tilapia; *Oreochromis niloticus*: Biochemical and oxidative stress. The Journal of Basic & Applied Zoology72, 43–57.**
- ◇ **Abdel-Khalek, A.A. (2015): Antioxidant Responses and Nuclear Deformations in Freshwater Fish, *Oreochromis niloticus*, Facing Degraded Environmental Conditions. Bull. Environ. Contam. Toxicol. 94:701–708.**

● **M.SC. THESES SUPERVISING:**

1. **"Biological and Toxicological Impacts of Copper Oxide Versus Its Nanoparticles Counterpart in Nile Tilapia Fish (*Oreochromis niloticus*)". Zoology Department. Faculty of Science-Cairo University**
Name of candidate: Shereen Reda
Special Field: Animal Ecology
2. **"Biological and Toxicological Impacts of Zinc metal in Comparison to Its Nanoparticles Counterpart in Freshwater Fish". Zoology Department. Faculty of Science-Cairo University**
Name of candidate: Alyaa Abdel-Latif
Special Field: Animal Ecology
3. **"Ecological and biological studies on Nile tilapia; *Oreochromis niloticus* facing different contamination levels around Sabal drainage along river Nile."**
Name of candidate: Samar Mamdouh
Special Field: Animal Ecology
4. **"Ecological studies on economic fish species in Ashtoun El-Gamil protected area, Egypt."**
Name of candidate: Mohamed Said Abdelwarith
Special Field: Animal Ecology

● **Laboratory Experience :**

- ◇ **Experience in aquatic toxicology, aquatic habitat monitoring and fish ecophysiology researches in addition to water quality measurements, toxicity tests, fish culture and aquatic pollution assessment.**
- ◇ **Performing many biochemical and antioxidant biomarkers.**
- ◇ **High experience in conducting different genotoxicity techniques as DNA fragmentation and micronucleus tests.**
- ◇ **Separation and identification of protein molecules using SDS-PAGE**
- ◇ **Performing statistical data analysis.**

● **Academic Experiences:**

- 1- **Experience in academic teaching since 2005 in courses of ecology, physiology, immunology, haematology, protein & enzyme biotechnology and introductory biology courses (Histology, Cytology and Anatomy).**
- 2- **Teaching as part timer in Faculty of Dentistry at British University in Egypt (BUE) from 2012/2013 till now.**
- 3- **Work as a reviewer in many journals (Archives of Environmental Contamination and Toxicology, Environmental Monitoring and Assessment and Toxicology and Industrial Health)**

Activities

1. **Participation in the organization of the Annual Graduation Ceremony of the Faculty of Science, Cairo University held in 2008, 2009, 2010 and 2011.**
2. **Participation in the organization of the 3rd Tournament of Friendship for Egyptian Faculties of Science, Cairo, February, 2008.**
- 3- **Participation in undergraduate control activities from 2006 until now.**
- 4- **Participated in the control of Faculty of Commerce (all levels students) from 2013 to present, Faculty Commerce, Cairo University.**
- 5- **Supervise many undergraduates' field trips to Sharm El-shekh and El Ain El-sokhna.**
- 6- **Participate as evaluator for four semesters (2013/ 2014) in STEM international school for prototype and poster exhibition and evaluation event.**
- 7- **Evaluate posters and prototypes of the applicant's of Intel ISEF (International Science and Engineering Fair) on 2013/ 2014.**

• Training and Workshops :

- 1- Participation in workshop entitled "Designing scientific posters" within the DAAD Kairo Akademie on December 04, 2014 at the premises of Cairo University, Faculty of Science, Zoology department.
- 2- Participation in MENA Education institute on Responsible science at Trieste, Italy May 7-12, 2014.
- 3- Participation in workshop entitled "Biosafety and responsible science" within the DAAD Kairo Akademie on April 15, 2014 at the premises of Cairo University, Faculty of Science, Zoology department.
- 4- Organization and participation in workshop entitled "DNA extraction & PCR application" at Cairo University, Faculty of Science, Zoology department in 25 March 2013.
- 5- Participation in a workshop entitled "Ethics in science" of the further domain "Academic skills" on 25 November 2012 organized by DAAD Kairo Akademie.
- 6- Participation in a Symposium held in Tanta University entitled "Ethics in science and its application in society" April 2012.
- 7- Participation in a training program entitled "Scientific writing" at Alexandria Research Centre For Adaptation (ARCA) from 20-22 March 2012.
- 8- Organization and participation in workshop entitled "References and data management using End Note X5 software" at Cairo University, Faculty of Science, Zoology department on 12 March 2012.
- 9- Participation in a Symposium held in Ein Shams University entitled "Risk of pollution in the Egyptian lakes and methods of its Control" from (6-7) May 2009.
- 10- Participation in a workshop entitled "fish diseases" training program held in Egyptian fish council from 23-27 March 2008.
- 11- Attending "Protein Crystallography and Drug Design" conference, Alexandria Library, 2006.
- 12- Participation in Higher Education Enhancement Project Fund (HEEPF) training course in molecular biology held in November (13-18) 2005 in Cairo university.

• Honors and Prizes:

1. Awarded the prize for the perfect demonstrator of the Zoology Department -Faculty of Science - Cairo University" from the Club of Cairo University Staff, 2007.
2. Awarded the prize for the perfect Lecturer Assistant of the Zoology Department -Faculty of Science - Cairo University" from the Club of Cairo University Staff, 2008.
3. Awarded the prize for international publication from Cairo university 2013 and 2014

• Skills & Courses :

1. Computer skills : *Excellent computer and internet handling :
 - Windows.
 - Office.
 - Internet search.
 - Photoshop.
 - Power point.
 - ICDL license.
2. Course : Toefl course from faculty of Arts-Cairo university.

• Languages :

- Arabic : Mother language.

English : Very good.