



## Curriculum Vitae

**Name:** Aliaa Mahmoud Issa Abdou

**Position:** Professor of Histology, Histochemistry and Cancer Biology at the Zoology Dept., Faculty of Science, Cairo University

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### Personal Data:

Gender: Female  
Marital Sate: Married with two children  
Nationality: Egyptian  
Languages: Arabic.....Mother language  
English.....Excellent  
French..... Excellent

### Education:

#### 1 Ph.D.(1988):

Zoology Dept., Faculty of Science, Cairo University and the Roswell Park Memorial Institute, Buffalo, N.Y., USA.

Major: Cell Biology, Histology and Histochemistry

Minor: Cancer Biology.

Title: Studies on the effect of some biological agents on the growth and metastatic behaviour of mouse colon adenocarcinoma in black mice "C<sub>57</sub>BL/6".

#### 2 M.Sc(1983):

Zoology Dept., Faculty of Science, Cairo University.

Major: Zoology (Experimental).

Minor: Cancer Biology.

Title: Histochemical studies on the effect of altered immunological reactivity of pulmonary metastasis of Ehrlich tumor in mice (*Mus musculus*).

### **3 B.Sc.( 1977):**

Major: Zoology.

### **4 Scholar Education:**

Lycée Français de Bab el Louk, Le Caire, L'Egypte.

### **Work History:**

**Since 2015 till present :** Professor Emeritus at the Zoology Department , Faculty of Science, Cairo University.

**2015-2017:** Vice president at the Quality Assurance Unit of the Faculty of Science.

**2017 till present:** Rapporteur of the Zoology Department Microtechnique unit.

**2017 till present:** working on the initiation of a Faculty Unit supporting student problem with Addiction.

**2008 till 2017:** Working with the Quality Assurance unit of the Faculty of Science, Cairo University as determinant of the Education and learning Faculty of Science file.

**2007 till 2015:** Professor of Histology and Histochemistry at the Zoology Dept., Faculty of Science, Cairo University .

**2000-2007:** Associate Professor at the Zoology Dept., Faculty of Science, Cairo University .

**1992-2000:** Lecturer at the same Dept.

**1990-1991:** Research Associate at the Physiology Dept., Auburn University, Alabama, USA

**1983-1988:** Research Associate at the Zoology Dept., Faculty of Science, Cairo University.

**1977-1983:** Demonstrator at the same Dept.

### **Experience:**

1. Lecturing many courses:

#### Undergraduate level:

Histology, Cell Biology, Genetics, Microtechnique, Histochemistry and Cancer Biology.

#### Post-graduate and Ph.D level:

Cell Pathology, Tissue Biology, Histochemistry, Cancer Biology, Tissue culture, Tissue Remodeling and Cell Motility and Animal Cell growth.

2. Evaluation of the Microbiology program of Jouf University, Kingdom Saudi Arabia (March 2019).

3. Vice president of the Quality Assurance unit of the Faculty of Science, Cairo University. (2015-2017).

4. Determinant of the Teaching and learning file of the Faculty of Science, Cairo University, through the Quality Assurance unit till the Faculty Accreditation from 2007 till 2017.

5. Evaluating Fullbright applications in the Zoology and Biology Fields (1997, 1998 and 2003).

6. Research specialist in a project funded by the Mississippi- Alabama Sea Grant Consortium,

- Studying some physiological aspects of crustaceans, Alabama, USA, 1990-1991.
7. Sharing in the supervision of the Microtechnique Unit, Zoology Dept. Faculty of Science (1993-1995).
  8. Teaching Cancer practical course at the Pollutants as Poisons training program at the Research Center of Poisons and Narcotics, RCPN, Zoology Dept., Faculty of Science, Cairo University(1993).
  9. Supervising several Master and Ph.D thesis.
  10. Teaching undergraduate practical classes (1977-1988).
  11. Academic advisor since 2006.

**Attended Conferences:**

1. Annual Conference of Histology and Cell Biology Department, Faculty of Medicine, Ain Shams University-Dec. 2018
2. ESEB 2017: 13th International conference of the Egyptian Society of Experimental Biology. Sharm elShekh, Egypt February-2017.(as attendant and session modurator).
3. ICCNCC 2015 : 17th International Conference on Cancer Nursing and Cancer Care. Bangkok, Thailand. December 17 - 18, 2015
4. ICBCS 2014, Shanghai - China (2014 International Conference on Biological and Chemical Sciences, ICBCS, April 2014).
5. The 11<sup>th</sup> Annual Congress of Medical Sciences, Dec 17-19, 2013, NRC, Cairo, Egypt.
6. Stem cells "Stem Cell Applications and Human Genome" conference, organized by The Arabic Foundation of Molecular Genetics and Stem Cell Technology on 20-21 February 2013.
7. 2011 International Conference on Green Buildings and Sustainable Cities, Sep 15-16, 2011, Bologna, Italy.
8. The 5th Asian Pacific Cancer Organization for Cancer Prevention Conference, 3-7 April 2010, Istanbul – Turkey.
8. The 9<sup>th</sup> Malaysia Architecture, Interior Design & Building Exhibition, Kuala Lumpur, Malaysia, 3-6 July 2008.
9. The 30<sup>th</sup> conference of the Egyptian Society of Histology and Cytology, 28<sup>th</sup> Dec., 2006.
10. The 30<sup>th</sup> conference of the Egyptian Society of Histology and Cytology, 28<sup>th</sup> Dec., 2006.
11. 11<sup>th</sup> Conference of the Zoological Society A.R.Egypt. Faculty of Science, Tanta4 University. Tanta, Egypt. Feb. 20<sup>th</sup>, 2005.
12. The 29<sup>th</sup>, Scientific conference of the Egyptian Society of Histology and Cytology. Faculty of Medicine, Ain Shams University. Dec., 29, 2005.
13. The 28<sup>th</sup>, Scientific conference of the Egyptian Society of Histology and Cytology. Histology Dept., Al-Azhar Faculty of medicine. Dec, 30, 2004.
14. The 10<sup>th</sup> Conference of the Zoological Society A.R.Egypt. Faculty of Science, Faculty of Science, Helwan University. Cairo, Egypt. Feb., 23th, 2003.
15. The 2<sup>nd</sup> Week of The International Universities Cooperation and Solidarity " Rivages d'Echanges, Rivages de Solidarite", Marseille, France, 9-13 December, 2002.
16. The 4<sup>th</sup> International Conference on Laser and Applications in Science, Medicine and Technology. National Institute of Laser Enhanced Sciences (NILES), Cairo University. March, 31-April 5, 2001.
17. III International congress of the african biology (FASBMB).Nov.14-16, 2000.

18. The 8<sup>th</sup> Conference of the Zoological Society A.R.Egypt. Conference center, Cairo University. Egypt. Feb. 27<sup>th</sup>, 2000.
19. The 1<sup>st</sup> Conference on Chemistry (Chem.1), Chemistry Dept., Faculty of Science, Cairo University. March 6-9, 2000.
21. The 2<sup>nd</sup> International conference of the Electron Microscope, the 6<sup>th</sup> of October city, 1999.
22. The 7<sup>th</sup> Conference of the Zoological Society A.R.Egypt, 1999.
23. The 5<sup>th</sup> Conference of the Union of the Arab Biologists, Ismailia, Egypt, 1998.
24. The annual Conference of the Egyptian Society of Parasitology, Cairo, Egypt, 1997.
25. 20<sup>th</sup> and 21<sup>th</sup> Scientific Conference of the Egyptian Society of Histology and Cytology, Cairo, Egypt (1996 & 1997).
26. The Conferences of the Egyptian German Society of Zoology, Cairo University, Zoology Dept. (1992 & 1993).
27. The 77<sup>th</sup> Annual Meeting of the American Association of Cancer research, Los Angeles, California, USA. (1986).

#### **Memberships:**

1. The Zoological Society, A.R. Egypt, Cairo, Egypt.
2. The Union of Arab Biologists, Faculty of Science, Cairo University.
3. The Egyptian Society of Histology and Cytology, Faculty of Medicine, ElAzhar University.

#### **Evaluation of Theses/ Dissertations and Examining Academic promotion files and Research papers:**

1. Evaluation of a promotion file of a candidate at the Microbial Biotechnology Dept. of the National Research center, Dokki, Giza. (Sept 2019).
2. Evaluation of the graduation projects of Biotechnology students at the MSA university, 6<sup>th</sup> of October City, Egypt. (June 2019)
3. Examining theses and dissertations at the German University at Cairo, Helwan, Tanta, Banha, Suez and Fayoum Universities, Egypt. (since 2011)
4. Sharing with the committee of academic promotions for associate professors and professors in evaluating the files of University and Research Institutes members. (since 2014).
5. Examiner for research papers published in "The Journal of Basic and Applied Zoology", under the responsibility of the Egyptian Society for Biosciences Advancement.

#### **Training Courses and Workshops:**

1. Workshop on Green Environment at Faculty of Science, Cairo University (Nov. 2018).
2. Workshop on the use of the Egyptian Knowledge bank. (Nov. 2018 - Central Library of Cairo University)
3. Ethics committee workshop at the main Library of Cairo university, April 2016.
4. Designing scientific poster, DAAD, Kairo Akademie, held at the Zoology Dept., Faculty to Science, Cairo University, December 2014.
5. Steps towards applying for a research project, School of Medicine, Cairo University, May 2014.
6. Google Apps. IT unit, Faculty of science, Cairo University, May 2013.

7. The 10<sup>th</sup> National TEMPUS day and the projects forum, 13-14 January 2013.
8. Workshop on How to turn your research idea into a fundable project-Organized by the Egyptian-German Society of Zoology- Zoology Department- Faculty of Science- Cairo university.
9. Internal examiner, (Quality Assurance , Training Unit at Faculty of Science, Cairo university, November 2011).
10. Courses and workshops at Cairo University in the Quality Assurance and Accreditation field (2010-2011):
  - a. -Internal examiner.
  - b. -Organizational Structure and the Administrative System (training course).
  - c. -Academic Program specification (training course).
  - d. -Preparation of the strategic plan of a faculty (workshop).
  - e. -National Academic Reference Standards (NARS) (workshop).
  - f. -Institutional self- evaluation for higher education.
11. How to write a scientific project, 2007.
12. Summer school on protein crystallography and drug design (2006).
13. Credit hours system training course. Staff Leadership Development center, Cairo University. March, 22-23, 2006.
14. The use of technology in teaching, Staff Leadership Development center, Cairo University. 4-6 Dec. 2006.
15. Economics, marketing and funding scientific researches. Staff Leadership Development center, Cairo University. 21-23 Aug., 2006.
16. Flow cytometry training course. National Cancer Institute, Cairo University. Dec., 18-21, 2005.
17. Electron microscope and its Applications in Biological and Medical sciences training course. The Micro Analytical Center of science, Cairo University. April, 26-28, 2005.
18. Time management and work stress training course. Staff Leadership Development center, Cairo University. Nov, 30- Dec, 2, 2004.
19. Mushroom culture training course at the Institute of Agriculture research, Unit of Mushroom Research and production. Dec. 6-17, 2003
20. Molecular Biology workshop of III international congress of the African Societies of Biochemistry and Molecular Biology (FASBMB).Nov., 11-13, 2000.
21. Computer and Information technology training course, Cairo University, Scientific Computation Center, March,1-16, 2000

### **Presented Projects:**

1. Establishing a hepatic tumor model in mice metastasized from Ehrlich ascites tumor cells.Presented to Cairo University. July 2019 (not yet screened).
2. "Development to include images analysis to raise student evaluations abilities". Presented to the High Education Enhancement Fund (HEEPF). Ministry of high education. Project management unit (PMU). Egypt. April, 16, 2005.
3. "The effect of *Pleurotus ostreatus* fungus (oyster mushroom) on the incidence of tumor in mice". Presented to the Academy of Scientific Research and Technology, Egypt. April, 2003.
4. "Study on some gasoline additive showing carcinogenic effects on human".

Presented to Environmental Protection Fund. Egypt. May, 2003.

### **Community and Faculty Service:**

1. Raporteur of the Microtechnique Unit at the Zoology Dept., Faculty of Science, Cairo University since the academic year 2017/2018 till present.
2. Member of the Faculty of Science Quality Assurance Committee since 2006, Rapporteur of the "Teaching and Learning portfolio" of the Faculty of Science, Cairo University then Vice president of the Unit from 2008 till 2017.
3. Editing an Arabic scientific book on "Hepatocellular carcinoma... causes and diagnostic techniques"(2017).
4. Committee leader for studying the proposed offer for using the Virtual labs in Zoology Dept. student classes (June and July 2017).
5. Evaluating the proposals of Fulbright Commission fellowships applicants in the Zoology and Biology Fields (1997, 1998 and 2003).
6. Member of the Education Remodeling Conference at the Cairo governorate, South region.

### **Supervision:**

- Master theses: 17 awarded theses and 8 under preparation.
- Ph.d dissertations: 8 awarded.

### **Patent:**

Number 2007120657- date 23-12-2007 at the Egyptian Patent Office of the Academy of science Research and Technology, State Ministry for Scientific Research.

### **List of Publications:**

1. Decellularized Liver Bioscaffold: A Histological and Immunohistochemical comparison between Normal, Fibrotic and hepatocellular Carcinoma (2019). Clin Exp Hepatol, 5, 1: 35–47. [doi.org/10.5114/ceh.2019.83155](https://doi.org/10.5114/ceh.2019.83155)
2. Assessment of Genotoxicity of Potassium Nitrate and Sodium Benzoate in Drosophila melanogaster Using Smart and Comet Assays (2018). Egypt. Acad. J. Biolog. Sci., 10(2): 83- 97. ISSN 2090-0767.
3. The toxic effect of multi wall carbon nanotubes on swiss albino rat (2018). Egypt. J. Zool., 70: 1- 12. Doi: 10.12816/ejz.2018.26954
4. Assessment of Genotoxicity of Potassium Nitrate and Sodium Benzoate in Drosophila melanogaster Using Smart and Comet Assays (2018). Egypt. Acad. J. Biolog. Sci., 10(2): 83- 97. ISSN 2090-0767
5. Ultra structural and morphometric effect of aluminum phosphate and calcium phosphate nanoparticles as adjuvant in vaccinated mice (2016). JASEMR, 11(1):22-28.
6. Sider Bee Honey: Antitumor Effect in Some Experimental Tumor Cell Lines. (presented in the ICCNCC 2015 : 17th International Conference on Cancer Nursing and Cancer Care. Bangkok, Thailand. December 17 - 18, 2015).

7. Patterns of Testicular Histopathology in Egyptian Azoospermic Men (2014). Int. J. Urol., 13(1):1-6.
8. Expression Profiling of CREM Gene in Testis with Normal and Impaired Spermatogenesis in Egyptian Males (2014). Egypt. J. Genet. Cytol. 43:199-205.
9. Evaluation of the Effects of Aluminum Phosphate and Calcium Phosphate Nanoparticles as Adjuvants in Vaccinated Mice. (2014). Intern. J. Chem. Eng. and Appl., 5(5):367-373.
10. Role of green tea on nicotine toxicity on liver and lung of mice: Histological and morphometrical studies (2012). Afr. J. Biotechnol. 11(8): 2013-2025.
11. Histological Hazards of Chlorpyrifos Usage on Gills and Kidneys of *Tilapia nilotica* and the Role of Vitamin E Supplement in Egypt (2011). Life Science J. 8(4):113-123.
12. Histopathological, Histochemical and Biochemical Studies on the effects of Lorsban on the Liver of *Tilapia nilotica* and the possible defense effect of Antioxidants. Aust. J. Basic Appl. Sci. (2011), 5(12): 75-94.
13. Morphometrical, Histopathological, and Cytogenetical ameliorating Effects of Green tea Extract on Nicotine Toxicity of the Testis of Rats (2010). J Cytol Histol 1:105. doi:10.4172/2157-7099.1000105.
14. Histopathological alterations induced by cardiac glycosides in some tissues of male albino mice. Egypt.J.Zool. (2007), 47: 283- 302.
15. Apoptosis: A major mechanism involved in the embryonic development of *Bufo Regularis*. Egypt.J.Zool. (2006), 46: 473- 491.
16. The use of thiola as a protective agent against lead toxicity to rat kidney: Histological and ultrastructural studies. Egypt.J.Zool.(2005), 45:575-595.
17. Histological and Histochemical studies on the role of lipoic acid in the oxidative stress incidence in some body organs of rat (*Rattus norvegicus*). Egypt.J.Zool. (2005), 44:481-505.
18. Some hematological, biochemical and histopathological effect of Trypanosoma on catfish *Clarias gariepinus* (Burchell, 1822). Egypt. J. Zool. (2003), 40:507-525.
19. Seasonal comparative study of the gut- associated lymphoid tissues of some anuran amphibian. Egypt. J. Zool. (2002), 38: 349-370.
20. Biochemical and histological studies on the possible hepatic protection by silymarin against methotrexate toxicity in rats. Egypt. J. Zool.(2002),38: 189-207.
21. Some metabolic alterations in grass carp (*Ctenopharyngodon idella*) induced by exposure to mercury and zinc. Egypt J. Aquat. Biol. Fish., (2000), 4(3): 21-43.
22. Combined effect of vitamin C and adriamycin on liver metastasis in black mice "C<sub>57</sub> /6. Egypt. J. Zool., (1999), 32:281-301.
23. Host-parasite *Acanthodactylus boskianus*. I - A histopathological and histochemical study. Egypt. Ger. Soc. Zool.,(1999),30(C):199-221.
24. Influence of protein malnutrition on paracetamol teratogenic potential in rats. II – Histopathological and histochemical changes. Proc. 15<sup>th</sup> Ann Conf. Egypt. Soc Toxicol. (1999), 1-15.
25. Histopathological and histochemical studies on the liver of *Mabuya quinquetaeniata* naturally infected with *Hepatozoon gracilis*. . Egypt. J. Zool. (2000),34: 245-269.

26. Influence of protein malnutrition on paracetamol teratogenic potential in rats. I- A study on the incidence of gross anomalies. Egypt. Soc. Toxicol., (1998), 20: 15-18.
27. Effects of vitamin A deficiency and supplementation on the post-hatching development of chick's lymphoid organs. J. Union Arab. Biol., Cairo, (1998), 9(a): 413-427.
28. Characterization of microglial cells in the central nervous system of the frog, *Rana ridibunda*. Egypt. J. Zool.(1998), 31: 203-221.
29. Effect of saline water on renal morphology of Nile tilapia *Oreochromas niloticus*. Egypt. J. Histol., (1997), 20(2): 405-415.
30. Histological observations on the effect of protective agents against lead toxicity in albino rats. Egypt. J. Histol., (1997), 20(2); 395-404.
31. Histopathological lesions experimentally induced by diquat in liver and gills of grass carp, *Ctenopharyngodon idella*. Proc. Zool. Soc. A.R. Egypt, (1994), 25: 134-146.
32. Description of a Murine Model of Experimental hepatic Metastases from Colon Cancer in mice for Therapeutic Studies. Proceedings of AACR, vol. 27, (1986).
33. Studies on the effects of vitamin C, soya protein and vitamin A on the growth and metastatic behaviour of mouse colon adenocarcinoma in black mice "C57BL/6". First Intern. Conf. Chem. Applic., Doha, Qatar, (1993), 7-9 Dec.
34. Histochemical studies of altered immunological reactivity of lodging tissue in pulmonary metastasis of Ehrlich tumor. Bull. Fac. Sci. Cairo Univ., (1986), 54:167-184.
35. Effect of altered immunoreactivity on pulmonary metastasis of Ehrlich tumor. Egypt. Med. J., (1985), 1(1): 31-38.
36. Effect of immunostimulation by *Corynebacterium parvum* on mucopolysaccharides and alkaline phosphatases in pulmonary metastasis of Ehrlich tumor. Proc. Soc. A.R.E., (1985), (A): 25-37.