



## ***CURRICULUM VITAE***

**Prof. Fatma M. El-Demerdash**

**Professor of Biochemistry  
Department of Environmental Studies  
Institute of Graduate Studies and Research  
Alexandria University  
Alexandria, Egypt**

**Address:** Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, 163 Horreya Avenue, Chatby 21526, P.O. Box 832, Alexandria, Egypt.

**Home address:** 35 Abd ElKader Ragab Street, Roshdy, Alexandria

**Telephone:** (203) 4295007, (203) 4297942 (Work)

**Mobil:** 2(012)22218225

**Fax # :** (203) 4285792, (203) 4241485

**E-mail:** [eldemerdashf@yahoo.com](mailto:eldemerdashf@yahoo.com)

### **Academic Degrees:**

- **B.Sc.**, with “Very Good” grade average, in Biochemistry from Faculty of Science, Alexandria University, Alexandria, Egypt.
- **M.Sc.**, (by course work and research) in Biochemistry from Faculty of Science, Alexandria University, Alexandria, Egypt.
- **Ph.D.**, in Environmental Studies from Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.

### **Occupations:**

- **1981–1987:** Demonstrator, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- **1987–1995:** Assistant lecturer, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- **1995-2001:** Assistant professor, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- **2001-2006:** Associate professor of Biochemistry, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- **2006:** Professor of Biochemistry, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- **2009- 2011:** Executive Director, University of Alexandria Research Center.
- **Member of Egyptian Universities Promotion Committees (Biochemistry committee), 2008-2011.**
- **Member of the basic medical Sciences for Research Centers and Institutes Committees, 2013**
- **Member of Egyptian Universities Promotion Committees (Biochemistry committee), 2016-2019.**

### **Prizes:**

- 2002:** Prize of Alexandria University for Scientific Encouragement.
- 2004:** Prize of Academy of Science and Technology for Scientific Encouragement in Environmental Research.

### **Grants:**

- Mission given by the Ministry of Higher Education for 6 months (July 2007-January 2008) in the field of Biochemistry and Molecular Biology, INRA, Centre de Recherche de Montpellier, University of Montpellier II, Montpellier, France.

### **Award**

- Awarded **Marquis' Who's Who in the World, in Science and Engineering**, published in 24<sup>th</sup>, 25<sup>th</sup>, 26<sup>th</sup> Editions, 2006, 2007, 2008.

### **Projects**

- **Air pollution lab accreditation**
- **CIQAP project**

### **Programs of Education development and Quality assurance:**

- Attend **6** Training Courses in Faculty and Leadership Development Center "FLDC":
- Attend the Programme Specifications and Programme Report Workshop, Quality Assurance Unit, Faculty of Pharmacy, Alexandria University, 21 November 2005.
- Attend a workshop "How to Write a Successful Research Proposal" that held at the Bibliotheca Alexandrina 8-10 December 2005, Alexandria, Egypt.
- Attend a workshop on Peer Reviewers, 24-25 December 2008, HEEP 2, Alexandria University, Alexandria, Egypt.

### **Peer reviewer for the following international Journals:**

- 1) Toxicology
- 2) Toxicology in vitro
- 3) Food and Chemical Toxicology
- 4) Cell Biology international
- 5) Cell Biology and Toxicology
- 6) Free Radical Research
- 7) Fish physiology and Biochemistry
- 8) Pesticide Biochemistry and Physiology
- 9) Journal of Pharmacy and Pharmacology.
- 10) Journal of Health Science.
- 11) Pharmacological Research.

- 12) Journal of Medicinal Food.
- 13) Journal of Toxicology and Environmental Health.
- 14) Archives Of Environmental Contamination And Toxicology
- 15) Animal Biology
- 16) Ecotoxicology and Environmental Safety
- 17) Journal of Diabetes Mellitus
- 18) Journal of Environmental Science and Health, Part B
- 19) Journal of Xenobiotica
- 20) Drug and chemical toxicology
- 21) Environmental Toxicology
- 22) Toxicology Research
- 23) Bioresource Technology

#### **Editorial Board:**

- Editorial Board Member in **Journal of ENVIRONMENTAL SCIENCES AND HEALTH, PART B, TAYLOR AND FRANCIS**
- Editorial Board Member in **Pharmacologia, A SCIENCE MAGAZINE.**
- Editorial Board Member in **JOURNAL OF BIOPHYSICS AND BIOMEDICAL SCIENCES (JBBS)**, an International Journal.
- Lead Guest Editor of Special Issue on "**Oxidative Stress Biomarkers and Antioxidants**" Journal of Toxicology, Hindawi
- Lead Guest Editor of Special Issue on "**Biochemical and Toxicological Aspects of Pesticides**" Journal of Environmental Science and Health- Part B, Taylor and Francis.
- Guest Editor of Special Issue on "**Matrix Metalloproteinases as a Pleiotropic Biomarker in Medicine and Biology**" Disease Biomarkers, Hindawi 2016.
- Lead Guest Editor of Special Issue on "**Xenobiotics, Oxidative Stress and Antioxidants**" Oxidative Medicine and Cellular Longevity, Hindawi 2017.
- Editorial board member in journal "**Current Molecular Medicine**" (Impact Factor 2.345), 2018.

### **International Conference Organization:**

- Member of the National Scientific Committee of the International Conference of African Association for Physiological Sciences, Ismailia 2-5 September 2012, Egypt.
- Member of the Program Technical Committee of the International Conference on Pharmaceutical Sciences, ICPS 2015 Dubai.

### **International Conferences:**

- Participated in the Experimental Biology '99' Conference 17-21 April 1999, Washington DC, USA and presented a paper.
- Participated in the Experimental Biology '2001' Conference 31 March -4 April 2001, Orlando, Florida, USA and presented two papers.
- Participated in the XXXIV International Congress of Physiological Sciences, Christchurch, New Zealand, 26 - 31 August 2001 and presented one paper.
- Participated in the Molecular & Cellular PROTEOMICS, HUPO 2<sup>nd</sup> Annual & IUBMB XIX world Congress, Montreal, Canada, 8-11 October 2003 and presented two papers.
- Member of the International Scientific committee of the "4th International Conference of the African Association of Physiological Sciences 21-26 November 2004 in Tangier and Tetouan, Morocco" and presented one paper.
- Member of the International Scientific committee of 5th International Congress of the African Association of Physiological Sciences (AAPS), 27<sup>th</sup> July to 1<sup>st</sup> August 2008, NAIROBI, KENYA.
- Participated in the 36<sup>th</sup> International Congress of Physiological Sciences, Kyoto, Japan, 27- 1<sup>st</sup> August 2009 and presented one paper.
- Participated in the Tenth International Review of Bipolar Disorders (IRBD) 2010, 12 – 14 May 2010, Novotel Budapest Congress & World Trade Center, Budapest, Hungary and presented one paper.
- Participated in the RIPECA's 1st Jordanian National Workshop (NWS) of the Capacity Building Phase 12 – 13 December 2010, Amman, Jordan and deliver lectures.
- Participated in Oxygen Radicals Conference, Ventura Beach Marriott Ventura, California, USA. February 5-10, 2012 and presented one paper.
- Participated in IUPS Physiology Teaching Conference and Workshop, Arabian Gulf University, Kingdom of Bahrain, 31 March-1 April 2012 and deliver a lecture.
- Attend Presentation Skills Workshop, Hyatt Regency Hotel 22 July 2013, Birmingham, England.
- Participated in the 37<sup>th</sup> International Congress of Physiological Sciences, Birmingham, England, 21- 26 July 2013 and presented two papers.

- Participated in Protein Transport Across Cell Membranes Conference, Hotel Galvez Galvestone, Texas, USA. March 9-14, 2014 and delivered two paper.
- Participated in Oxygen Radicals Conference, Ventura Beach Marriott Ventura, California, USA. February 7-12, 2016 and presented one paper.
- Participated in Oxygen Radicals Conference, Ventura Beach Marriott Ventura, California, USA. February 4-9, 2018 and presented one paper.

### **National Conferences:**

- International Conference on Photochemistry and Photobiology. Jan. 5-10, 1983. Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Participated in the first symposium on Environmental Science organized by Institute of Graduate Studies and Research, Alexandria University. In cooperation with UNESCO Regional office for science and technology for the Arab states and Goethe Institute of Alexandria, 15-17 May, 1990, Alexandria, Egypt.
- Participated in the International Conference on Environment, Health and Sustainable Development, organized by Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt (March 22-25, 1999), and presented two papers.
- Participated in the Annual Meeting of the Egyptian Society of Toxicology, March 22-23, 2001, Alexandria, Egypt.
- Participated in the Second International Conference & Exhibition for Life and Environment, 3-5 April, 2001, Alexandria, Egypt.
- Participated in the International Conference on Biotechnology and Sustainable Development: "Voice of the South and North". At the Bibliotheca Alexandrina Conference Center, Alexandria, Egypt (March 16-20, 2002).
- Participated in 4<sup>th</sup> International Conference for Food Industries Quality Control. 11-13 June, 2002. Alexandria, Egypt.
- Participated in 5<sup>th</sup> International Conference for Food Industries Quality Control, 8-10 July, 2003, Alexandria, Egypt.
- The 20<sup>th</sup> Anniversary Conference of the Egyptian Society of Toxicology, 18-19 February, 2004. Bibliotheca Alexandrina, Alexandria, Egypt.
- Participated in Biovision Alexandria 2004: The new life Science. Ethics, Patents and the Poor. Bibliotheca Alexandrina, 3-6 April, 2004. Alexandria, Egypt.
- Participated in the 8<sup>th</sup> Arab International Conference on Materials Science "Materials for Energy Applications". 18-20 April 2004, Alexandria, Egypt.
- Attend and present a paper in the 7<sup>th</sup> National Conference of Biochemistry and Molecular Biology and their Role in Development and Environment March 5-7, 2006, Cairo, Egypt.

- Attend the Conference of "Innovation and Technology transfer to the Egyptian Industry: Exploring the German" Model. Nile Hilton Hotel, Cairo Tuesday 10th of June, 2008.
- Attend the fourth International Scientific Conference of Environmental Risk Assessment in the Middle East, 11-14 November 2008, Safaga- Egypt.
- Participated in Biovision Alexandria 2010: New Life Sciences: Future Prospects. Bibliotheca Alexandrina, 11-15 April, 2010. Alexandria, Egypt.
- Research Industry Day from Lab to Reality. Thursday, 28 July 2011, Bibliotheca Alexandrina.
- Participated in Biovision Alexandria 2012: Bibliotheca Alexandrina, 11-15 April, 2012. Alexandria, Egypt.
- Participated in "The Role of Science, Engineering and Technology in Achieving Sustainable Human Development in the Arab Region" Bibliotheca Alexandrina, 30-31 December 2012, Alexandria, Egypt.
- Participated in Biovision Alexandria 2014: Bibliotheca Alexandrina, April, 2014. Alexandria, Egypt.
- Participated in The international Conference Towards Sustainable Environment, 11-12 August 2014, Alexandria, Egypt, and deliver one paper.
- Attended the 4th International Conference of Advanced Sciences (ICAS4), 7-10/11/2017, Hurghada, Egypt and deliver one paper.

### **Workshops:**

- Postgraduate course on "Scientific computer programming" in (UNARC). Alexandria, Egypt, 1983-1984.
- German language course, at the Faculty of Science, 1985, Alexandria University, Alexandria, Egypt.
- Workshop of "Preparation of the University teacher" Faculty of Education, Alexandria University, Alexandria, Egypt. 17 Sep. - 5 Oct. 1988.
- Workshop of "A course on air pollution" principals, sources, monitoring, Modeling and control 24-28 Dec. 1994, participate by lectures, Institute of Graduate Studies and Research, Alexandria, Egypt.
- Workshop of "A course on air pollution" principals, sources, monitoring, Modeling and control 9-14 Sep, 1995, participate by lectures, Institute of Graduate Studies and Research, Alexandria, Egypt.
- Workshop of "Effects of air pollution on water, soil, plant, animal and man. 16-21 Sep. 1995, participate by lectures, Institute of Graduate Studies and Research, Alexandria, Egypt.
- Participated in a workshop of "Environmental Protection". 16 Feb.- 2 Mar. 1998, Alexandria, Egypt.

- Workshop of “A course on air pollution: sources, monitoring and modeling. 26-29 August 2000. Participate by lectures, Institute of Graduate Studies and Research, Alexandria, Egypt.
- Participated in the 3<sup>rd</sup> regional workshop on urban and industrial wastewater: Problems and Treatment. In cooperation between Institute of Graduate Studies and Research, Alexandria university and British Council, 24-28 January, 2004, Alexandria, Egypt.
- Attend a workshop on Bases of protein analysis. 25-29 March 2007, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Attend a workshop on Genetic Engineering. 15-19 April 2007, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Attend Presentation Skills Workshop, Hyatt Regency Hotel 22 July 2013, Birmingham, England.

#### **Training Courses and workshops organization:**

- Annual Training Course on the effect of environmental pollutants on the biological systems and protection by using antioxidants”. Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Annual Training Course on Physiological, Reproductive, Biochemical and Molecular Biology Techniques: Basics and Applications in Environmental Studies. Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Annual workshop of “A course on air pollution” principals, sources, monitoring, Modeling and control and participate by lectures. Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt. and participate by lectures
- Organize an Intensive Course on Environmental pollutants-hazards, control and protection and participate by lectures 13-15 July 2008,.Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Organize an Intensive Course on Industrial pollution control and participate by lectures 3-6 November 2008, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Organize an Intensive Course on Environmental pollutants-hazards, control and protection and participate by lectures, 26-28 April 2009, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Organize an Intensive Course on Industrial pollution control and participate by lectures 12-15 July 2009, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
- Organize an Intensive Course on Environmental Health Risks and participate by lectures 7- 10 December 2009 and 22-25 March 2010, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.

### **General Lectures:**

- TV interview about environmental Pollutant and Protection using Antioxidants. April 2008
- Deliver a general lecture on Pesticides and Antioxidants, 9 July 2008. Environment friends Society- Sheraton El-Montaza, Alexandria, Egypt
- Deliver a general lecture on Health Hazards of Environmental Pollutants, 22 December 2008. Innovation Center, Alexandria, Egypt.
- Deliver a general lecture on Antioxidants and Environmental Pollutants, 9 April 2009. Bibliotheca Alexandrina, Alexandria, Egypt.
- Deliver a general lecture on Environmental Pollution, 18 May 2013. Power generation Company, Alexandria, Egypt.

### **Membership:**

- 1) Member in the African Association of Physiological Sciences “AAPS” Governing Council.
- 2) Member in the American Physiological Society, USA.
- 3) Member in the Egyptian Society of Toxicology, Cairo, Egypt.
- 4) Member in the Egyptian Society of Biochemistry and Molecular Biology, Cairo, Egypt.
- 5) Member in the Environment Friends Society, Alexandria, Egypt.
- 6) Member in the Egyptian Physiological Society, Cairo, Egypt.
- 7) Member in the Society of Environmental Toxins, Cairo, Egypt.
- 8) Member in the club of Faculty of Alexandria University, Alexandria, Egypt.
- 9) Member in the Syndicate of Scientific Professions, Alexandria, Egypt

### **Teaching Courses:**

- Environmental biochemistry
- Biological Health Hazards
- Health hazards of fluoride
- Ecotoxicology
- Methods of Environmental measurements
- Health benefits of Ginseng
- Antioxidants
- Aluminium phosphide toxicity
- Heavy metal toxicity
- Natural herbs and antioxidants
- Pesticide toxicology
- Reproductive toxicology
- Hepatotoxic compounds
- Medicinal plants
- Air pollution

## **Research Interest:**

- 1- Biochemistry
- 2- Environmental Toxicology
- 3- Antioxidants and Oxidative Stress
- 4- Environmental pollution.
- 5- Environmental health.

## **Consultation:**

- Participated in project of analysis of air constituents in Alexandria National Iron and Steel Company in Dekhaila, Alexandria, Egypt, from January-March 1995.
- Training course (Lectures and Practical) in Health and Environment, for American Students from Ohio University, USA. Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt. June- July, 2008.

## **Supervisions:**

### **1- Ph.D.**

1. **Ph.D.** in Environmental Studies (2000). An environmental study on the role of vitamin E and Beta carotene against the toxicity of some pesticides and heavy metals. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
2. **Ph.D.** in Environmental Studies (2008). A Study on the impacts of volatile oil and probiotic bacteria and their role in toxicity of cadmium in rats. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
3. **Ph.D.** in Environmental Studies (2013). A study on the impact of the application of laws in reducing contamination of the work environment Dekheila Port Marine. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
4. **Ph.D.** in Environmental Studies (2013). Proper utilization of wild medicinal plants as a natural resource in biocontrol of phytopathogenic fungi. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
5. - **Ph.D.** in Environmental Studies (2014). A study on the harmful effect of Ibuprofen and the antioxidant role of *Coriandrum sativum* volatile oil in rats. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
6. - **Ph.D.** in Environmental Studies (2014). A study on the toxic effect of Carboplatin chemotherapy on biochemical, histological and molecular changes in rats: Antioxidant role of Basil and lycopene. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
7. **Ph.D.** in Environmental Studies (2014). A study on the efficiency of polyphenols against fenitrothion insecticide and/or chromium toxicity in rats. Dept. of

Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.

## 2- M.Sc.

1. **M.Sc.** in Environmental Studies (2000- 2002). Study on the protective role of isoflavones against the toxicity of some pyrethroid insecticides in mammals. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
2. **M.Sc.** in Environmental Studies (2003 - 2005). The protective role of folic acid against chromium toxicity in mammals. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
3. **M.Sc.** in Environmental Studies (2000 - 2005). Assessment of air quality at Petroleum Services Stations Case Study: Misr Petroleum Stations in Alexandria. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
4. **M.Sc.** in Environmental Studies (2000 - 2006). Effects of some trace minerals supplementation as antioxidants on productive and reproductive traits of mammals. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
5. **M.Sc.** in Environmental Studies (2003 - 2006). The assessment of aluminium cytotoxicity and the protective role of some antioxidants. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
6. **M.Sc.** in Environmental Studies (2004 - 2007). The protective role of Curcumin against Arsenic Toxicity Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
7. **M.Sc.** in Environmental Studies (2004 - 2007) Fluoride intoxication in rats: Protective role of Ginseng Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
8. **M.Sc.** in Environmental Studies (2005 - 2008). The protective role of lipoic acid against aluminium phosphide in rats. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
9. **M.Sc.** in Environmental Studies (2005 - 2011). Toxicity of carbon tetrachloride in rats: possible protective role of cannabis extract. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
10. **M.Sc.** in Environmental Studies (2009). Impact of acetamiprid on lipid peroxidation, liver and kidney functions in rats. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
11. **M.Sc.** in Environmental Studies (2010). Improvement of drinking water purification using powdered activated carbon (Case study: El Nozha water treatment plant). Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
12. **M.Sc.** in Environmental Studies (2010). A study on oxidative stress and environmental safety in petrochemical industry. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.

13. **M.Sc.** in Environmental Studies (2010). Electronic Nose Technology for Monitoring Selected Secondary Waste Water Treatment Plants in Alexandria. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
14. **M.Sc.** in Environmental Studies (2010). Cytotoxicity of beta-cyfluthrin and protective role of some antioxidants on oxidative stress in rat. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
15. **M.Sc.** in Environmental Studies (2011). Assessment of water quality and oxidative stress in *Tilapia nilotica* fish in Lake Edko. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
16. **M.Sc.** in Environmental Studies (2011). A Study on the role of rosemary (*Rosmarinus officinalis*) against coal tar creosote toxicity in rats" Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
17. **M.Sc.** in Environmental Studies (2011). Assessment of proanthocyanidin against paraquat toxicity in rats. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
18. **M.Sc.** in Environmental Studies (2012). Assessment of oxidative stress biomarkers and antioxidant enzymes in *Tilapia nilotica* fish exposed to heavy metals in vitro: role of ascorbic acid. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
19. **M.Sc.** in Environmental Studies (2012). Enzymatic responses to heavy metals exposures in a freshwater fish *Tilapia nilotica*: role of an antioxidant. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
20. **M.Sc.** in Environmental Studies (2012). Assessment of heavy metal residues in Lake Maryout and their combined effects on the enzymatic responses in *Tilapia nilotica* fish. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
21. **M.Sc.** in Environmental Studies (2012). A study on the effect of hydrogen sulphide on oxidative stress and antioxidant defence system on workers of Petroleum refining industry. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
22. **M.Sc.** in Environmental Studies (2012). Assessment of the toxic effects of an organophosphate insecticide and a biocide in rats. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
23. **M.Sc.** in Environmental Studies (2012). Therapeutic effectiveness of some chelators on oxidative stress and antioxidant enzymes in mice exposed to lethal doses of some heavy metal ions. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
24. **M.Sc.** in Environmental Studies (2012). A study on the effect of hydrogen sulphide on oxidative stress and antioxidant defence system on workers of Petroleum Refinery

Industry. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.

25. **M.Sc.** in Environmental Studies (2013). A study on the protective action of clove volatile oil against acetamiprid toxicity in rats Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
26. **M.Sc.** in Environmental Studies (2013). Effectiveness of thyme volatile oil in the prevention of biochemical and histological distortions induced by lambda-cyhalothrin in rats Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
27. **M.Sc.** in Environmental Studies (2013). A study on the protective effect of a medicinal plant; milk thistle (*Silybum marianum*) against lead toxicity in rats Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
28. **M.Sc.** in Environmental Studies (2013). A study on the efficiency of green tea polyphenols in inhibition of nickel toxicity in rats. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
29. **M.Sc.** in Environmental Studies (2013). Effect of polyphenol antioxidants from damiana (*Turnera diffusa* Willd) against toxicity of organophosphate insecticide, chlorpyrifos. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
30. **M.Sc.** in Environmental Studies (2014). A study on the antioxidant effect of *Elettaria cardamomum* volatile oil on coal tar creosote induced liver and kidney damage in rats" Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
31. **M.Sc.** in Environmental Studies (2014). "Effects of *Bacillus thuringiensis* toxin and methomyl insecticide on lipid peroxidation and antioxidant defense system in rats". Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
32. **M.Sc.** in Environmental Studies (2014). "Development of some polymers to be used for waste water treatment" Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
33. **M.Sc.** in Environmental Studies (2014). An Assessment of  $\alpha$ -Lipoic acid efficiency as antioxidant against imidacloprid toxicity in rats" Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
34. **M.Sc.** in Environmental Studies (2014). "Development of some Polymers for water treatment Applications"Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
35. **M.Sc.** in Environmental Studies (2014). "Synthesis and characterization of some polymeric materials to be utilized for heavy metals removal from industrial

wastewater” Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.

36. **M.Sc.** in Environmental Studies (2014). "Assessment of Performance of Bab-Sharky Water Treatment Plant, Alexandria Water Company". Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
37. **M.Sc.** in Environmental Studies (2014). Study on Scaling and Corrosion in Drinking Water Distribution Systems, Alexandria Water Company. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
38. **M.Sc.** in Environmental Studies (2014). "Study on Filter Backwash Water Recycling Case Study: Siouf Water Treatment Plant, Alexandria Water Company Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
39. **M.Sc.** in Environmental Studies (2014). Preparation and characterization of grafted polymers as anti- microbial for water treatment applications. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
40. **M.Sc.** in Environmental Studies (2014). Improving the Chemical Pretreatment for Reducing the Reverse Osmosis Membrane Fouling in Shalateen Desalination Water Plant, Al-Bahr Al Ahmar Water Company. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
41. **M.Sc.** in Environmental Studies (2014). "Preparation and Characterization of Polymer Membrane for Water Desalination Applications" Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
42. **M.Sc.** in Environmental Studies (2014). Reducing the Biofouling of RO Membrane in Desalination Water Treatment Plant, Alexandria Water Company. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
43. **M.Sc.** in Environmental Studies (2014). A study on The Effect of Some Nanomaterials on Biochemical Parameters and Histological Changes in Rats. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
44. **M.Sc.** in Environmental Studies (2014). Evaluation of Star Anise (*Illicium verum*) efficiency as antioxidant against the toxic effect of Cyclophosphamide chemotherapy

in rats. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.

45. **M.Sc.** in Environmental Studies (2014). Detection of coloring agent Tartrazine in food samples and its effect on oxidative stress and antioxidant defense system in Baby Hamster Kidney Fibroblast "BHK" cell line. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
46. **M.Sc.** in Environmental Studies (2014). Development of some Polymers for water treatment Applications. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
47. **M.Sc.** in Environmental Studies (2014). A study on the side effects of chemotherapy and role of silymarin as antioxidant in rats. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
48. **M.Sc.** in Environmental Studies (2014). Biochemical and physiological modifications in cowpea seedling under cadmium stress condition. Dept. of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.

### **3- Diploma**

1. Diploma in Environmental Studies (1995). Economic savings from the replacement of fuel oil by natural gas in Alexandria Petroleum Company and the possibility of retrieving off gases. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
2. Diploma in Environmental Studies (1996). Recovery of sulphur in petroleum industry (1996). Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
3. Diploma in Bioscience and Technology (1998). Garlic and some vitamins as protectors against the toxicity of carbon tetrachloride. Dept. of Bioscience and Technology, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
4. Diploma in Bioscience and Technology (1998). N-nitrosamines and their effects on acetylcholinesterase and lactate dehydrogenase activities in the brain of mice. Dept. of Bioscience and Technology, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt.
5. Diploma in Environmental Studies (1998). Role of vitamin C in the detoxification of aflatoxin B1 in brain and liver of male rabbits. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
6. Diploma in Environmental studies (2000). Measurement of iodine in the environment: Levels, impact, problems and solutions. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
7. Diploma in Environmental studies (2000). Protective effects of melatonin against pyrethroids toxicity. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.

8. Diploma in environmental studies (2001). Zinc in the environment: Levels, sources and effects of excess and deficiency in biological systems. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
9. Diploma in Environmental studies (2001). Protective role of some trace elements as antioxidants against the effects of environmental chemicals. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
10. Diploma in Environmental studies (2001). Ameliorating effect of vitamins as antioxidants against the toxic effects of environmental pollutants. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
11. Diploma in Environmental studies (2002). Safety and toxic levels of chromium in the environment. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
12. Diploma in Environmental studies (2002). Dioxins in the environment is the issue of tomorrow. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
13. Diploma in Environmental studies (2003). The protective role of vitamin E and selenium against the toxicity of aluminum on some enzyme activities of rats. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
14. Diploma in Environmental studies (2003). Acrylamide in the environment: Is it a real hazard to public health? Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
15. Diploma in Environmental studies (2003). Importance of herbs as a source of antioxidants. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
16. Diploma in Environmental studies (2003). Effect of environmental estrogen on fish fertility. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
17. Diploma in Environmental studies (2003). Effect of nicotine on reproductive health of mammals. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
18. Diploma in Environmental studies (2003). Study on the interaction of Polychlorinated biphenyls (PCBs) with mammalian reproductive health. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
19. Diploma in Environmental studies (2004). Role of some antioxidants against the alterations in enzyme activities caused by fluoride. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
20. Diploma in Environmental studies (2004). An environmental study on oxidative damage induced by fluoride: Role of some antioxidants. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
21. Diploma in Environmental studies (2004). Effect of nicotine on biochemical parameters: Protective role of some antioxidants. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.

22. Diploma in Environmental studies (2004). Effect of nicotine on lipid peroxidation: Protective effect of some antioxidants. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
23. Diploma in Environmental studies (2005). An environmental study on the endocrine disruption of bisphenol A. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
24. Diploma in Environmental studies (2005). Herbal medicine and save human health. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
25. Diploma in Environmental studies (2005). A study on the toxic effects of phthalates on biological systems. Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.



*Alexandria University*  
*Institute of Graduate Studies and Research*  
*Department of Environmental Studies*

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*List of Publications*

**Prof. Fatma M. El-Demerdash**

Professor of Biochemistry  
Department of Environmental Studies  
Institute of Graduate Studies and Research  
Alexandria University  
Alexandria, Egypt

- 1- A.M. Attia, **F.M. El-Demerdash** and A.B. Okab (1996). Effect of *Solanum Nigrum* L. Extract on Biological Parameters in Mice. The FASEB Journal, Abstract no. 2984. Experimental Biology 96<sup>TM</sup> Washington, D.C. April 14-17, 1996. Annual meeting of professional research scientists. vol. 10, No. 3, March 8, 1996.
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- 5- **F.M. El-Demerdash**, S. Hassouna and N. Mansour (1999). *In Vitro* effect of ammonium acetate on liver glycogen phosphorylase enzyme of a fresh water fish, *Tilapia nilotica*. Accepted in International Conference on Environmental Management, Health, and Sustainable Development, Alexandria, Egypt. 22-25 March 1999.
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- 41- Ehab A. Abbady, **Fatma M. El-Demerdash**, Hoda H. Baghdadi (2013). Assessment of coal tar creosote toxicity in rat liver: role of rosemary. The 37<sup>th</sup> Congress of the International Union of Physiological Sciences (IUPS 2013) from Sunday 21 - Friday 26 July 2013, Birmingham, UK.
- 42- Hoda M. Nasr, **Fatma M. El-Demerdash** (2013). Protective effect of vitamins C and E on abamectin-induced oxidative stress in rats. The 37<sup>th</sup> Congress of the International Union of Physiological Sciences (IUPS 2013) from Sunday 21 - Friday 26 July 2013, Birmingham, UK.
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- 48- **Fatma M. El-Demerdash** and **Hoda M. Nasr** (2014). Prophylactic effect of exogenous melatonin on oxidative damage evoked by organophosphate insecticide in rats. *Protein Transport Across Cell Membranes Mechanisms, Structure, and Physiology*. March 9-14, 2014. Hotel Galvez, Galveston, Texas, USA.

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- 56- Hoda M. Nasr, **Fatma M. El-Demerdash**, Wael A. El-Nagar (2016). **Neuro and renal toxicity induced by chlorpyrifos and abamectin in rats. Toxicity of insecticide mixture**. *Environ Sci Pollut Res* 23:1852–1859.
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