

## Curriculum Vitae

### PERSONAL

Surname: Fahmy

**Name :** Sohair R. Fahmy

**Academic degree:** Ph.D.

**Specialization:** Physiology

**Date of birth:** 3/5/1972

**Marital status:** Married

**Nationality:** Egyptian

**Home address:** Madkour, King Faisal, Giza, Egypt.

**Work address:** Department of Zoology, Faculty of Science, University of Cairo, 12613, Giza, Egypt

Mobile: 0161063033

**Home:** (202) 737238920

E. Mail: [sohairfahmy@Gmail.com](mailto:sohairfahmy@Gmail.com)

: [Sohair@sci.cu.edu.eg](mailto:Sohair@sci.cu.edu.eg)



### Title

- ü Assistant Prof. Comparative physiology, Faculty of Science, Cairo University, Cairo, Egypt.
- ü Vice Chair of the Institutional Animal Care and Use Committee (IACUC) in the Faculty of Science, Cairo University, Egypt in 2012
- ü Professional trainer
- ü Member of board of international trainers

### Educational Background

- ü Doctor of Philosophy (Ph. D.) in Comparative Physiology, Faculty of Science, Cairo University, 2006. The thesis entitled ““*Biochemical and Physiological*

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***Studies On the Biomphalariaalexandrina Snails Eposed to Different Treatments of Heavy Metals ).***

- ü Master degree in Comparative Physiology, Faculty of Science, Cairo University, 2000. The thesis entitled “***“Biochemical and Physiological Studies on the Nile Clam MutelaRosterata (Rang 1835)”***”.
- ü Master Qualification Courses from Faculty of Science Cairo University, 1995, ***Excellent Grade.***
- ü Bachelor degree in Zoology from Faculty of Science Cairo University, May 1994, ***Excellent with Honor Grade.***

**LANGUAGES**

- ü Arabic (Mother tongue)
- ü English (the first foreign language) very good

**Academic Professional Posts**

1. Assistant Professor of Physiology, Department of Zoology, Faculty of Science, Cairo University. Since 2011.
2. Lecturer of Physiology, Department of Zoology, Faculty of Science, Cairo University. Since 2006.
3. Assistant Lecturer, Department of Zoology, Faculty of Science, Cairo University. Since 2001.
4. Demonstrator, Department of Zoology, Faculty of Science, Cairo University. Since 1995.

**Teaching Responsibilities**

- ü practical physiology and invertebrate demonstration classes.
- ü General Physiology for first year.
- ü Human physiology for fourth year students and Biophysics-special
- ü Students.
- ü Metabolism for third year students.

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- ü Supervision of practical physiology and invertebrate demonstration Classes.
  - ü Invertebrate Ecology & Physiology for Molecular and integrated physiology, M.Sc. Students.
  - ü **Physiology of Excretion & Respiration for Molecular and integrated physiology, M.Sc. Students.**
  - ü Ethical issues in Biotechnology for Biotechnology/Biomolecular Chemistry Program Students.

### **Membership Of Scientific Societies And Organizations**

1. German-Egyptian Society of Zoology.
2. Egyptian Zoological Society.
3. Union of Arab Biologists.
4. Public Responsibility in Medicine and Research (**PRIM&R**)

### **IMPORTANT ACHIEVEMENTS**

- ü A member of the Faculty of Science, Cairo University, activation e-courses Committee 2013.
- ü Established and vice chairperson of the first Institutional Animal Care and Use Committee in the Faculty of Science, Cairo University, Egypt in 2012.
- ü Established and is chairperson of Cairo University Ethics Committee for the Use of Experimental Animals in Teaching and Scientific Research in 2014.
- ü A representative of sector of Basic sciences in Board of Directors of the Faculty and Leadership Development Center, Cairo University 2015.

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**TECHNICAL EXPERTISE**

As a physiologist with a focus on the effect of complementary and alternative medicine in treatment against different endemic diseases in Egypt, the following are some of my professional accomplishments. Related pharmacological activities like anti-inflammatory, antioxidant, antineoplastic activities of different natural products (From plant and animal sources) were further explored through biochemical and toxicological approach. I am very interested in animal surgery models that mimic human disease, like osteoporosis which achieved via ovariectomy in female rat, liver fibrosis in rat via bile duct ligation, sepsis via ceacl ligation and puncture in rat, nephrectomy in rat. The results of my research are used by thousands of people, who interested in my basic research area. I am an author of over **35 peer reviewed papers**, several of which have received best paper or most influential paper awards. Since 2012 I became involved in the ethical care and use of experimental animals in research, and I am instrumental in establishing the first IACUC in Egypt in the Faculty of Science, Cairo University in 2013 where I act as Vice Chairperson now. I am also a dynamic member in the recently formed Cairo University Committee for the Ethical Use of Experimental Animals in Teaching and Research.

**CONFERENCES AND SYMPOSIUMS ATTENDED**

- ü Fourth Conference of the Egyptian Society for Experimental Biology at the University of October 6, 23/2/2008.
- ü First International Conference of the Center for Quality Assurance and Accreditation at Cairo University, 15/4/2008.
- ü The second international forum for scientific research at the University of Cairo, 13-16/2/2010.
- ü Course description, Cairo University, 20/12/2010.
- ü Criteria for self-study and the annual report of the institution, Cairo University, 27/12/2010.
- ü The academic standards for academic program, Cairo University, 15/1/2011.

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- ü International Congress of Zoology at the University of Beni Suef, 30/4-2/5/2011.
  - ü Attending the workshop "References and Data Management Using EndNote X5 Software", Zoology Department, Cairo University, Egypt, 12 March, 2012.
  - ü Attending the ethical parameters for scientific research and its applications in the service of society, Faculty of Science, Tanta University, 11/4/2012.
  - ü Attending the workshop ' How to turn your research idea into fundable project' Department of Zoology, Faculty of Science, Cairo University, 13/6/2012.
  - ü Attending and participating 1st National Conference for scientific research and civil society under supervision of Federation of Societies of qualitative scientific research, 24/12/2012.
  - ü Attending and participating the 10<sup>th</sup> annual congress of medical sciences "Medical research towards healthy society", El Mansoura University, 14-16/11/2013.
  - ü Attending the workshop "DNA Extraction & PCR Application", Zoology Department, Cairo University, Egypt, 25 March, 2013.
  - ü Attending the workshop "Nanomedicine and Nanotechnology" held by Biophysics Department, Faculty of Science, Cairo University, 11-12/1/2014.
  
  - ü RWTH Aachen University, Germany conference "The Establishment of the First Institutional Animal Care and Use Committee (IACUC) in Egypt, 2014 .
  
  - ü AAALAC international conference ' The path of success under AAALAC new standards' Denver, USA, April, 2014.
  - ü The IACUC conference sponsored by PRIM&R, Denver, USA, 2-3/4/2014.

- ü Organizing and participating the 20<sup>th</sup> International Conference on Modern Trends in Zoology, when science and ethics meet, in Mariot Elzamalek, 11/2014.
- ü The IACUC conference sponsored by PRIM&R., Boston, USA , 2015

## TRAINING

a. TRAINING COURSES ATTENDED		
ACTIVITY	INSTITUTION/ORGANIZATION	PERIOD
Evidence based medicine in clinical drug safety and effectiveness	Faculty and leadership development center	4/2013
Ethics of Scientific Research	Faculty and leadership development center	11/5/2014
Management of scientific research	Faculty and leadership development center	11/5/2014
Conference Organization	Faculty and leadership development center	4/2013
Communication Skills	Faculty and leadership development center	5/2011
International Publishing of Scientific Research	Faculty and leadership development center	3/2011
E-Learning	Faculty and leadership development center	11/2010
The Credit Hour Systems	Faculty and leadership development center	9/2010
Legal and Financial Aspects in University Environment	Faculty and leadership development center	8/2009
Managing Research Teams	Faculty and leadership development center	10/2008
Use of Technology in Teaching	Faculty and leadership development center	8/2006
Competing for Research Funds	Faculty and leadership	8/2006

	development center	
University Code of Ethics	Faculty and leadership development center	9/2006
Thinking skills	Faculty and leadership development center	12/2004
Ethics in Science	DAAD	25/11/2012
Interactive lectures	DAAD	20/5/2014
Designing Scientific Posters	DAAD	4/12/2014
IACUC 101	PRIM&R, Denver, USA	31/3/2014
Essential for IACUC administration	PRIM&R, Boston, USA	17-18/3/2015

#### b. TRAINING COURSES DELIVERED

ACTIVITY	INSTITUTION/ORGANIZATION	PERIOD
Standard operation procedures and Institutional animal care and use committee (IACUC)	Faculty of Science, Cairo University	11/2012
The establishment of the first institutional animal care and use committee (IACUC) in Egypt	Institute for laboratory animal science and experimental surgery (ILAS, RWTH Aachen University, Germany.	11/2013
PRIM&R	<b>Colorado</b> , USA	3-4/ 2014
Animal use protocol and 3Rs implementation	Department of Zoology , Faculty of Science, Cairo University	9/2014


### Theses Supervision

Participated in the supervision of more than 19 of the Master's and doctoral degrees at the Faculty of Science, University of Cairo

### List of Publication

#### 2015

- Fahmy, S. R., M. A. Amer, and M. H. Al-killidar, "[Ameliorative effect of the sea cucumber \*Holothuria arenicola\* extract against gastric ulcer in rats](#)", *The Journal of Basic & Applied Zoology*, vol. 72, pp. 16-25, 2015. [mohand\\_2015.pdf](#)
- Fahmy, S. R., "[Anti-fibrotic effect of \*Holothuria arenicola\* extract against bile duct ligation in rats](#)", *BMC Complementary and Alternative Medicine*, vol. 14, issue 15, 2015.
- Soliman, A. M., S. R. Fahmy, and S. A. El-Abied, "[Anti-Neoplastic Activities of \*Sepia officinalis\* Ink and \*Coelatura aegyptiaca\* Extracts Against Ehrlich Ascites Carcinoma in Swiss Albino Mice](#)", *International Journal of Clinical and Experimental Pathology*, vol. In press, 2015.
- Fahmy, S. R., and A. S. Mohamed, "[Anticholestatic Effect of \*Holothuria Arenicola\* Extract in Rats by Fahmy Sohair, Mohamed Ayman](#)", Italy, Lambert Academic Publishing, 2015.
- Fahmy, S. R., and A. S. Mohamed, "[Holothuria arenicola extract modulates bile duct ligation - induced oxidative stress in rat kidney](#)", *International Journal of Clinical and Experimental Pathology*, vol. In Press, 2015.
- Fahmy, S. R., A. M. Soliman, A. A. Sayed, and M. M. Marzouk, "[Possible antiosteoporotic mechanism of \*Cicer arietinum\* extract in ovariectomized rats](#)", *International Journal of Clinical and Experimental Pathology*, vol. In Press, 2015.
- Soliman, A. M., S. R. Fahmy, and W. A. Mohamed, "[Therapeutic efficacy of chitosan against invasive candidiasis in mice](#)", *Journal of basic and applied Zoology*, vol. In Press, 2015.

#### 2014

- Marzouk, M., A. M. Soliman, S. R. Fahmy, and A. A. Sayed, "[Ameliorative Effects of \*Cicer arietinum\* Extract and \*Coelatura aegyptiaca\* Shell Powder on Estrogen Sensitive Organs in](#)



- [Ovariectomized Rats](#)", *World Applied Sciences Journal*, vol. 31, issue 5, pp. 863-872, 2014. [2014\\_2.pdf](#)
- Soliman, A. M., and **S. R. Fahmy**, [Anti-neoplastic effects of Sepia ink and Coelatura aegyptiaca](#), , Germany, LAP LAMBERT Academic Publishing, 2014.
  - Soliman, A. M., and **S. R. Fahmy**, [Anti-neoplastic effects of Sepia ink and Coelatura aegyptiaca](#), , Germany, LAP LAMBERT Academic Publishing, 2014.
  - **Fahmy, S. R.**, A. M.Soliman, and E. M. Ali, "[ANTIFUNGAL AND ANTIHEPATOTOXIC EFFECTS OF SEPIA INK EXTRACT AGAINST OXIDATIVE STRESS AS A RISK FACTOR OF INVASIVE PULMONARY ASPERGILLOSIS IN NEUTROPENIC MICE](#)", *Afr J Tradit Complement Altern Med.*, vol. 11, issue 3, pp. 148-159, 2014. [20145.pdf](#)
  - **Fahmy, S. R.**, F. Abdel-Ghaffar, F. A. Bakry, and D. A. Sayed, "[Ecotoxicological Effect of Sublethal Exposure to Zinc Oxide Nanoparticles on Freshwater Snail Biomphalaria alexandrina](#)", *Arch Environ Contam Toxicol*, vol. 67, pp. 192–202, 2014.
  - Sayed, A., M. Marzouk, A. M. Soliman, and **S. R. Fahmy**, [Novel antiosteoporotic supplements against estrogen deprived rats](#), , Germany, Lambert Academic Publishing, 2014.
  - **Fahmy, S. R.**, I. Rabia, and E. M. Mansour, "[The potential role of mefloquine against Schistosoma mansoni infection by prohibition of hepatic oxidative stress in mice](#)", *The Journal of Basic & Applied Zoology*, vol. 67, pp. 40-47, 2014.[2014\\_3.pdf](#)
  - Dakrory, A. I., **S. R. Fahmy**, A. M. Soliman, A. S.Mohamed, and S. A. M. Amer, "[Protective and Curative Effects of the Sea Cucumber Holothuria atra Extract against DMBA-Induced Hepatorenal Diseases in Rats](#)", *BioMed Research International*, vol. In Press, 2014. [2014\\_6.pdf](#)
  - **Fahmy, S. R.**, E. M. Ali, and N. S. Ahmed, "[Therapeutic effect of Sepia ink extract against invasive pulmonary aspergillosis in mice](#)", *The Journal of Basic & Applied Zoology*, vol. 67, pp. 196-204, 2014. [2014\\_4.pdf](#)
  - **Fahmy, S.**, F. Abdel-Ghaffar, and D. Sayed, [Toxicological effects of zinc oxide nanoparticles: Ecotoxicological effect of sublethal exposure to zinc oxide nanoparticles on freshwater snail Biomphalaria alexandrina](#), , Germany, LAP LAMBERT Academic Publishing, 2014.

## 2013

- Sayed, A. A., A. M. Soliman, **S. R. Fahmy**, and M. Marzouk, "[Antiosteoporotic effect of Coelatura aegyptiaca shell powder on ovariectomized rats](#)", *African Journal of Pharmacy and Pharmacology*, vol. 7, issue 34, pp. 2406- 2416, 2013.
- **Fahmy, S. R.**, S. M. Rawi, and M. - A. S. Marie, [Effect Of Acrylamide On Male and Female Albino Rats](#), , Italy, LAP Lambert Academic Publishing AG & Co KG, 2013.
- **Fahmy, S. R.**, and A. M. Soliman, "[In vitro antioxidant, analgesic and cytotoxic activities of Sepia officinalis ink and Coelatura aegyptiaca extracts](#)", *African Journal of Pharmacy and Pharmacology* , vol. 7, issue 22, pp. 1512-1522, 2013.

## 2012

- Rawi, S. M., M. - A. S. Marie, **S. R. Fahmy**, and S. A. El-Abied, "[Hazardous effects of acrylamide on immature male and female rats.](#)", *African Journal of Pharmacy and Pharmacology*, vol. 6, issue 18, pp. 1367-1386, 2012.
- **Fahmy, S. R.**, and A. M. Soliman, "[Protective effects of honey and Zizyphus extract in male albino rats: Protective effects of honey and Zizyphus extract against Kava kava and ccl4 toxicity in male albino rats.](#)", Italy, LAP LAMBERT Academic Publishing, 2012.
- Soliman, A. M., and **S. R. Fahmy**, "[Therapeutic effect of the Egyptian Freshwater mussel Extract in rats: Efficacy of the Egyptian Freshwater Mussel Extract Against Monosodium Glutamate Toxicity in male rats.](#)", Italy, LAP LAMBERT Academic Publishing, 2012.

**2011**

- **Fahmy, S.**, "[Anti-Oxidative Stress Of Two Egyptian Crustacean Extracts In Rat.](#)", Italy, LAP Lambert Academic Publishing, 2011.
- **Fahmy, S. R.**, and S. A. H. Hamdi, "[Antioxidant Effect of the Egyptian Freshwater Procambarus clarkii Extract in Rat Liver and Erythrocytes](#)", *African Journal of Pharmacy and Pharmacology*, vol. 5, issue 6, pp. 776-785, 2011.
- **Fahmy, S. R.**, and A. M. Soliman, "[Curative effect of the Egyptian freshwater Clam Extract of Coelaturaaegyptiaca on Monosodium Glutamate - Induced Oxidative Stress in Rat Kidney and Brain.](#)", *The Egyptian German Society of Zoology*, vol. 62, issue A, pp. 303- 322., 2011.
- **Fahmy, S. R.**, and S. A. H. Hamdi, "[Curative Effect of the Egyptian Marine Erugosquillamassavensis Extract On Carbon Tetrachloride-Induced Oxidative Stress In Rat Liver and Erythrocytes.](#)", *European Review for Medical and Pharmacological Sciences*, vol. 15, issue 3, pp. 303-312, 2011.
- Soliman, A. M., and **S. R. Fahmy**, "[Protective and curative effects of the 15 KD isolated protein from the PeganumharmalaL. seeds against carbon tetrachloride induced oxidative stress in brain, tests and erythrocytes of rats.](#)", *European Review for Medical and Pharmacological Sciences*, vol. 15, issue 8, pp. 888-99, 2011.

**2009**

- **Fahmy, S. R.**, S. A. H. Hamdi, and H. A. Abdel-Salam, "[Curative Effect of Dietary Freshwater and Marine Crustacean Extracts on Carbon Tetrachloride-induced Nephrotoxicity](#)", *Australian Journal of Basic and Applied Sciences*, vol. 3, issue 3, pp. 2118-2129, 2009.
- **Fahmy, S. R.**, and A. M. Soliman, "[Oxidative Stress as a Risk Factor of Osteoporotic Model Induced by Vitamin A in Rats](#)", *Australian Journal of Basic and Applied Sciences*, vol. 3, issue 3, pp. 1559-1568, 2009.

**2008**

- Soliman, A. M., and **S. R. Fahmy**, "[Protective Effect of Honey and Zizyphus-spina-christi leaves Extract Against Kava Toxicity](#)", *J. Exp. Biol. (Zool.)*, vol. 4, pp. 193-198, 2008.

**2007**

- **Fahmy, S. R.**, and A. M. Soliman, "[Protective effect of silymarin, Honey and Ethanolic Extract of Zizyphus-spina-christi leaves Singly or Concomitantly Against Carbon Tetrachloride Toxicity In Rats](#)", *Egypt. J. Zool*, vol. 49, pp. 345-359, 2007.
- Sakran, A. M. E., N. M. Kandeel, and **S. R. Fahmy**, "[Toxicological and Physiological Studies On Eobania vermiculata and Monoacha cartusiana Snails.](#)", *J Biol chem & Environ Sci*, vol. 2, issue 2, pp. 349-368, 2007.
- Sakran, A. M. E., N. M. Kandeel, and **S. R. Fahmy**, "[Toxicological and Physiological Studies On Eobania vermiculata and Monoacha cartusiana Snails. II. Effect of ZnSo4](#)", *J Biol chem & Environ Sci*, vol. 2, issue 1, pp. 279-300, 2007.

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