



Curriculum Vitae

Dr. Hossam El-Din M. Omar

*Prof. of Animal Physiology, Department of Zoology,
Faculty of Science, Assiut University, Assiut, Egypt, 71516*

Personal Data:

Name : Hossam El-Din Mohamed Omar

Marital status: Married

No. of Children: Three

Nationality: Egyptian

Work Address: Zoology Department, Faculty of Science, Assiut University, Assiut 71516, Egypt.

Home Tel. 0020882148699

Mobil Tel. 0020123245399

Work Tel: 0020882148699

Fax No: 0020882342708

E-Mail: hossameldin.mo@gmail.com

hossameldin.mo62@yahoo.com

Omar61@aun.edu.eg

Academic Education:

1- B.Sc. (Zoology), Dept. of Zoology, Faculty of Science, Assiut University, 1983.

2- M.Sc.(Animal Physiology), Dept. of Zoology, Faculty of Science, Assiut University, 1988.

3- Ph.D. (Animal Physiology), Dept. of Zoology, Faculty of Science, Assiut University, 1993.

Professional Background:

Demonstrator, Zoology Department, Assiut University, 1983-1988.

Assistant Lecturer, Zoology Department, Assiut University, 1988- 1993.

Lecturer of Animal Physiology, Zoology Department, Assiut University, 1993-1998.

Assistant Professor, Zoology Department, Assiut University, 1998-2004.

Professor of Animal Physiology, Zoology Department, Assiut University 2004-until now.

Research Experience:

My interest is focused on the following topics:

1- Biosynthesis of prostaglandin from carbon labeled linolenic acid as mediators of inflammation and cellular proliferation.

2-Bioactive compounds from natural source like venoms of snakes and scorpion, algae and its application in biology.

3- Drugs (cisplatin & cyclosporine) and pollutants (nitrite, morpholine, potassium bromate, lithium, lead, acrylamide & mycotoxins) which induced adverse effects that mediated by oxidative stress in multiple organs of animals.

4- Xenobiotics (estradiol & endotoxins) biotransformation.

5- Applications of using antioxidants like melatonin, N-acetyl cysteine, quercetin, ellagic acid, α -lipoic acid, coumaric acid, thymoquinone, retonic acid in ameliorating the oxidative stress that induced by diseases like diabetes and hyperlipidemia that induced by high fat/high sucrose diet.

6- Prevention of diabetes complication by using antioxidants.

7- Correlation between diabetes and obesity in Egyptian society.

8- Pathogenicity of mold fungi on the different organs of fish.

9- Models of parasites infection like *Schistosoma mansoni* and free living amoeba which causes granuloma and keratitis, respectively in infected animals.

Teaching Experience:

Since 1993, I have been teaching several course; Physiology, Immunology, Toxicology, Biochemistry for post-graduate students and several courses for under-graduate students; Physiology (1) & (2), Immunology, Animal venoms, Healthy feeding, Physiology of reproduction, and general Zoology for Faculty of Agriculture, Pharmacy, and Dentary.

Projects:

A member of the project “Improving the quality of under and post graduate teaching and research facilities in Zoology Department, Zoology Department, Faculty of Science, Assiut University, 2008-2010.

Editing & Authorship:

1. Omar HM: Mycotoxins-induced oxidative stress and disease. In: Mycotoxin and Food Safety in Developing Countries, Makun H.A, editor, ISBN 980-953-307-571-1 chapter 3, pp 63-92, 2013 INTECH Europe Publishers, Croatia. www.intechopen.com.

Promotion/Journal Reviewer and Editorial Board Membership:

i- Reviewer of article for the following Journals:

- Journal of Biology and Earth Science
- Open Journal of Toxicology
- African Journal of Microbial Research
- African Journal of Pharmacy and Pharmacology
- African Journal of Aquatic Science
- Research Opinions in Animal & Veterinary Sciences
- Journal of Biology and Life Science
- International Journal of Aquaculture
- International Research Journal of Public and Environmental Health.
- Journal of Basic and Applied Zoology.

ii- Reviewer for promotion of Associate Prof. and Prof. in Animal Physiology for Staff members in Sana’a and Taz University (Yemen) and King Abelaziz University and Al-Qusim University (Saudi Arabia), Al-Kofa- Iraq.

iii- Reviewer for Master & Ph.D. degrees in Physiology, Zoology Department, Faculty of Science, Beni-Suef, Sohag and Al-Minia University, Egypt, and Annamalai University, Annamalainagar, Tamil Nadu, India.

iv- Reviewer for Beni-Suef University Scientific Prize, 2014 and Research project, 2015 and 2016.

v- Editorial board:

1-International Journal of Diabetes Research (IJDR). Scientific&Academic Publishing. <http://www.sapub.org/journal/editorialboard>.

2- Archives of Clinical Gastroenterology, www.peertechz.com/Clinical-Gastroenterology/editorialboard.php

3- American Journal of Biology R&D ISSN:2470-2563, <http://jrtdjournal.wixsite.com/ajbrd>.

4- Journal of Biology and Life Science, <http://www.macrothink.org/journal/index.php/jbls/about/editorialTeam>

5- Obesity Diagnosis and Treatment, <http://oprscience.com/department/obesity-diagnosis-and-treatment>.

6- Journal of Veterinary Science & Animal Welfare. <http://www.ommegaonline.org/journal-details/Journal-of-Veterinary-Science-and-Animal-Welfare/56>.

7-Annals of Obesity & Disorders, **Austin Publishing Group**. <http://austinpublishinggroup.com/obesity/editorialBoard.php>

8- Assiut University Bulletin for Environmental Researches, edited by Assiut University Center for Environmental Studies and Researches.

v- Membership:

1- Member of International Society for Development & Sustainability (ISDS), Japan.

2- Member of the Organizing Committee for the 1st International Conference of Biological Sciences, Faculty of Science, Assiut Egypt, 2009

3- Member of the Organizing Committee for the 6th · 7th and 8th International Conference for Development and the Environment in the Arab World, held on Assiut University by Assiut University Center for Environmental Studies Assiut, March, 2012, 2014 and 2016, respectively .

4- Member of the Assiut University Center for Environmental Studies and Research from 2010 until now.

5- Member of the Genetic Engineering & Molecular Biology Center, Assiut University from 2012 until now.

vi-Supervision:

Supervised for 13 Master Degrees and 8 Ph.D Degrees in Physiology, Immunology, Pathology, Forensic Medicine & Toxicology, and Biochemistry under the following title:

a-Master degree:

- [1] Emad Abdel-Aziz Ahmed (2000): Physiological effect of tannic acid as antioxidant on long-term of aluminum chloride exposure on rats (Physiology).
- [2] Mohamer Ahmed Y Nasser (2008): Physiological and biochemical effect of copper (1) nicotinic complex on skin burns in an experimental model (Physiology).
- [3] Sohair MM Rajab (2010): Assessment of the role of some antioxidants in protection against cisplatin drug-induced oxidative stress and toxicity in rats (Physiology).
- [4] Rouwaida Saadawy Ali (2010): Study of the biological activity of whole body extract of some Egyptian Annelides (Invertebrates).
- [5] Dalia A. Gabar (2012): Studies on the zoosporic fungi in some fish farms and the pathogenicity of two zoospores on Nile Tilapia (Botany, Mycology).
- [6] Marawa Al-amir M M Ali (2014): The protective role of vitamin E and zinc against lithium toxicity in male rats (Physiology).
- [7] Asmaa M. Attya (2015): Dimethylhydrazine induced oxidative stress and tumor promotion in the colon of mice: The ameliorating effects of quercetin and sodium glutamate (Physiology).
- [8] Imhemed O Fiedan, Lyabia (2014): Prophylactic treatment with thymoquinone, garlic oil and L-cysteine of aceylamide induced reproductive organs toxicity in male rats (Physiology).
- [9] Wafaa H.M. H (2015): Effect of catechin and calcium disodium ethylenamine tetracetic acid against lead toxicity in rats (Forensic Medicine & Toxicology).
- [10] Fatan A.M Hassan, Yeman (2017): Some studies on experimental *Schistosoma mansoni* infection in mice, with special reference to immunogenicity and treatment with some natural products (Parasitology).
- [11] Lila H. S. Hussein (2017): Immuno-modulatory effects of camel whey protein in streptozotocin-induced type I diabetic mice (Immunology)
- [12] Fatema Alzahara S. Anwar (2017): Ultrastructural and Pathological Features of Isolated *Acanthoemba spp* in Experimental Model: Trial for Treatment (Parasitology).

- [13] Martiena Abadeer Barsoum (2017): Effects of camel whey protein on human leukemia cells and hematopoiesis disorder in γ -irradiated rat model" (Immunology).
- [14] Zenab Hassan Syed (?): Hematological and pathophysiological alterations induced by rodenticides in rats (Physiology)

b- Ph.D degree:

- [1] Mohamed A. Seed, Yeman (2008): Studies on the efficacy of antioxidants: α -lipoic acid and N-acetyl cysteine for the treatment of oxidative stress in alloxan treated-rabbits (Physiology).
- [2] Abdulrahman SO Yassen, Yeman (2010): Effect of ellagic acid and garlic oil on potassium bromate induced oxidative stress in the kidney of rat (Physiology).
- [3] Elham A. Abd-Allah (2011): The Physiology of chemoprotective mechanism with some drugs and nutrients against the toxicity of nitrite and morpholine in male rats (Physiology).
- [4] Bushra Y. Al-Khatib, Yeman (2013): The immunological and antioxidant effects of fucoidan on the toxicity of cyclosporine A in rats (Immunology).
- [5] Sohair M M Rajab (2014): The physiological role of three natural compounds against metabolic disorders induced by high fats/high sucrose diet in male rats (Physiology).
- [6] Dena Ez-eldeen S Ahmed (2014): Immunopathological studies on the immunomodulatory activity of melatonin and dimethyl diphenyl bicarboxylate (DDB) in experimentally immunod suppressed chicken (Pathology).
- [7] Amira Maher Ahmed (2016): Evaluation of biochemical parameters related to obesity and type 2 diabetes in patients of Sohag Governorate (Biochemistry).
- [8] Omar Adel Shehata Mohmoud (): Protective effect of chlorella against aluminium induced neurotoxicity in rats (Forensic Medicine & Toxicolog, under investigation).

A knowledge for Collaboration in Dissertations:

1-Mesfer Saeed G. El-Ghamadi (2003): Breeding biology and environmental problems of house crow in Jeddah province. M.Sc. in Zoology, Faculty of Science, King Abelul-Aziz University, Jeddah-Saudi Arabia.

2-Omar Adel Shehata Mohmoud (2011): Evaluation of some chelating agents efficacy in treatment of lead toxicity. M.Sc. in Forensic Medicine and Toxicology, Faculty of Vetinary Medicine, Assiut University.

3- Abdel-Hamied M. Rasmey (2012): Isolation and characterization of actinomycetes with special reference to some bioactive compounds. PH.D. in Microbiology, Botany Department, Faculty of Science, Assiut University-2012.

4-Nada Anwar El-Shshawy: Effects of B-Carotene on Reproductive Performance in Farafra Ewe Lambs. M.Sc. thesis in Animal Production, Faculty of Agriculture, Assiut University, 2014.

5- Asmaa Metwaly El-Sayed Metwaly: Physiological and histological effects of garlic (*Allium sativum*) and lemon (*Citrus limon*) oils on the cotton leafworm larvae, *spodoptera littoralis* (Lepidoptera: Noctuidae), Faculty of Science, Assiut University, 2015

6- Amany Abdel-Rahman O Mohammed (2014): Biochemical studies on the activity of glutathione S transeferase in some organs of aflatoxicosed animals. Faculty of Science, Assiut University, Biochemistry.

Fellowships:

Visiting Research Associate at Toxicology and Pharmacology Department, Medical Sciences Program, Indiana University, USA from March 1994-March 1996.

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Assistant Prof of Physiology at Al-Baha-Saudi Arbia for 6 years from September 1998 to September 2004.

Conferences:

- ✚ Indiana University, School of Medicine, Scientific session, University Place Conference Center Febryary 9, 1996.
- ✚ 35th Annual Meeting of the Toxicologist, Abstract N0 395 vol. 30, No 1, Part 2 March 1996.
- ✚ The 15th Annual Conference for The Egyptian Society of Toxicology “Environmental pollutants and drug Interaction” Amphitheater, Faculty of Pharamacy 6-7 October 1999.
- ✚ 1st & 2nd International Conference on Basic Sciences & Advanced Technology, Faculty of Science, Assiut Egypt, 1999 and 2000.
- ✚ Annual Conferences of Egyptian Society of Toxicology.1999 and 2002.

- ✚ The 18th Scientific Conference for The Egyptian Society of Toxicology, Depart. of Pharamacology, Faculty of Medicine, Nasre City, Cairo, Egypt. 25-26 Sept., 2002.
- ✚ 1st International Conference of Biological Sciences, Faculty of Science, Assiut Egypt, 2009.
- ✚ Annual Conferences of the Faculty of Veterinary medicine, Assiut University Assiut , Egypt 2010.
- ✚ Conferences of the Egyptian-Germany Society of Zoology 1996 and 1997.
- ✚ 14thScientific Congress of Faculty of Veterinary Medicine, Assiut University 30 November-2December 2010.
- ✚ 6th International Conference for development and the Environment in the Arab World, held on Assiut University by Assiut University Center for Environmental Studies Assiut, March 24-26, 2012.
- ✚ 7th International Conference for development and the Environment in the Arab World, held on Assiut University by Assiut University Center for Environmental Studies Assiut, March 23-28, 2014.
- ✚ 48th Annual Conference Physiology and Pathology of Reproduction and simultaneously 40th Joint Congress of Veterinary and Human Medicine, Zurich, Switzerland, 11th-13th February 2015.

List of Publications:

A-Local Publications:

- [1] Nasser A.Y, Hassan K.A. and **Omar H.M.** (1988): Effect of prostaglandins B₁, F₁α and F₂α on the thyroxine, triiodothyronine and calcium levels in albino rat serum. *Assiut Journal of Agricultural Science*, 19 (2): 43-56.
- [2] Nasser A.Y, Hassan K.A. and **Omar H.M.** (1988): Kinetics of accumulation of radioiodine in rats thyroid gland as affected by PGB₁, F₁α and F₂α . *Assiut Medical Journal*, 12 (2): 1-17.
- [3] Sobh M.A., Al-Sawi N.M., Ahmad A. Abdel-Tawab, Abdel-Ghany A.M and **Omar H.M.** (1993): Evaluation of the role of growth hormone and insulin-like growth factor-1 in diabetic retionpathy. *Egypt. J. of Biochem.*, 11:305-312.
- [4] Al-Sawi N.M., Sobh M.A., Ghazally M.H. and **Omar H.M.**(1994): Effect of diabetes control on growth hormone and somatomedin-c levels in young subjects with insulin-dependent diabetes mellitus. *Arab. J. of Lab. Med.*, 20: 98-97.

- [5] **Omar H.M.**(1994): Effect of a bradykinin potentiating fraction from venom of the Egyptian cobra *Naja haje haje* on the lipid peroxidation of liver, kidney and testis of rats. *Bull. Fac. Sci., Assiut Univ.*, 23 (1-E): 21-34.
- [6] Ahmad O.A.K.M., **Omar H.M.** and Al-Sawi N.M.(1995): Emesis gravidarium: a possible role of thyroid dysfunction, serum progesterone and serum zinc concentrations. *Arab. J. of Lab. Med.*, 21: 227-235.
- [7] **Omar H.M.**(1996): Hepatic biotransformation of esteradiol valerate in male rats. *J. Egypt. Ger. Soc. Zool. 21 (A): Comparative Physiology*, 115-126.
- [8] **Omar H.M.**, Sanders R.A. and Watkins J.B.III (1996): Assessment of the diabetogenic streptozotocin as a model for the study of oxidative stress in female rats. *Bull. Fac. Sci., Assiut Univ.*, 25 (3-E) 31-42.
- [9] **Omar H.M.** and Hassan K.A.(1997): Endotoxin-induced liver injury is mediated by free radical production. *J Egypt. Ger. Soc. Zool.23 (A): Comparative Physiology*, 1-13.
- [10] Meki Abdel-Raheim M.A. and **Omar H.M.** (1997): Effect of garlic oil treatment as antioxidant on alloxan-induced diabetic rats. *Bull. Egypt. Soc. Physiol.*, 17: 98-113.
- [11] Sharkawy A.A., Abd-Elghaffar S.Kh. and **Omar H.M.**(1999): Efficacy of 2,3-dimercaptopropanol (BAL) and 2,3-dimercapto-1-propane sulfonate (DMPS) on long-term mercuric chloride exposure in rats: Toxicological and pathological studies. The 15th Annual Conference for the Egyptian Society of Toxicology 6-7 october, Alexandria University.
- [12] **Omar H.M.**(1999): Alterations in hepatic and biliary glutathione in the diabetic rats. *Bull. Fac. Sci., Assiut University*, 28 (2-E):103-111.
- [13] **Omar H.M.** (2000): Evaluation of the toxicity of the butylated hydroxytoluene and black seeds oil on liver and kidneys of rats. The 2nd International Conference on Basic Science and Advanced Technology, Assiut University, November 5-8:
- [14] Sharkawy A.A., Abd-Elghaffar S.Kh. and **Omar H.M.** (2002): Efficacy of diethyldithiocarbamate (DDTC) and diethylenetriamine pentaacetic acid (DTPA) on long-term cadmium chloride toxicity in rats. *J. Egypt. Soc. Toxicol., Special Issue, suppl. To Vol. 28: Proceedings of the 18th Scientific Conference.*

- [15] El-Sokkary G.H., **Omar H.M.**, Hassanein A.M.M., Cuzzocera S. and Reiter R.J.(2002): Melatonin reduces oxidative damage and increases survival of mice infected with *Schistosoma mansoni*. *Free Radical Biology and Medicine*, 32: 319-332.
- [16] Hassan K.A., **Omar H.M.**, Abd-Elghaffar S.Kh. and Abdel-Gabber E.A.A.(2002): Role of tannic acid as an antioxidant in reduction of the oxidative damage of aluminium chloride in the rat's brain. *Assiut Vet. Med. J.*, 48:100-115.
- [17] Zain A.El-Din and **Omar H.M.** (2003): Some antioxidants activities, lipid peroxide and nitric oxide levels in follicular fluid and its relation to oocyte quality in Buffalo-Cows. *Assiut Vet. Med. J.*, 49:293-310.
- [18] Abd-Elnaeim M.M.M., Zain A.El-Din and **Omar H.M.** (2003): Some studies on the histo-morphological characteristics and biochemical changes of corpora lutea in buffaloes (*Bos bubalis*) during oestrous cycle and early pregnancy. *Assiut Vet. Med.J.*, 49: 44-72.
- [19] Megahed G.A., Anwar M.M. and **Omar H.M.** (2003): Coexistence of high levels of cortisol and oxidative stress as an indicator in retained placenta in Buffalo-Cows. *Zag.Vet. J.*, 31: 131-140.
- [20] Megahed G.A., Anwar M.M. and **Omar H.M.** (2003): Possible role of oxidants/antioxidants imbalance on postpartum ovarian resumption in dairy cows. *Egypt. J. Basic Appl. Physiol.*, 2: 243-261.
- [21] **Omar H.M.**, Hassan K.A., Abd-Elghaffar S.Kh. and Ahmed E.A. (2003): Aluminium toxicity on rats: the role of tannic acid as antioxidant. *Ass. Univ. Bull. Environ. Res.*, 6: 1-14.
- [22] **Omar HM** (2009): Bradykinin potentiating peptides of venoms. Review article. *Assiut Univ.J. of Zoology. Spec. Publ. N0.2*: 59-73.
- [23] **Omar H.M.**; Abdel-Tawab HS; Al-Salahy MB; Saad El-dien HM; Saeed MA (2009): Histophysiological studies on the efficacy of antioxidants: α - lipoic acid and N-acetyl cysteine in the kidney of diabetic rabbits. *Assiut Univ.J. of Zoology. Spec. Publ.. N0.2*:181-209.
- [24] **Omar HM**, Ragab SMM, Emad AA and Nassar AY (2010): The ameliorating effect of vitamin C and DPPD on the toxicity of cisplatin in rats. *14th Sci.Cong. 2010, Fac.Vet.Med., Assiut Univ.Egypt.*
- [25] **Omar H.M.**; Saad El-Din, H.M.; Abd-Allah, E.A. and Sarhan, A.A.O. (2012):

Role of the 3-aminothiazolo[3.2a]benzimidazole-2-carbonitrile in the protection of hepatic and renal tissues against nitrosomorpholine toxicity in adult rats. Published in the 6th International Conference for Development and the Environment in the Arab World, Assiut University, March 24-26, 2012, pp.47-65.

- [26] Saad Eldien, H.M.; **Omar, H.M.**; Badary, M.S.; Al- Khatib, B.Y. (2012): The possible protective and therapeutic roles of fucoidan in cyclosporine-induced histological changes in the bone marrow and spleen in rats. *Egyptian Journal of Histology* 35(3): 383-397.
- [27] Sayed MM and **Omar HM** (2013): Estimation of some metallic pollutants in drinking water of some poultry farms at Assiut Governorate. *Assiut Vet. Med. J.* 59 (139):39-44.

B-International Publications:

- [1] **Omar H.M.**, Sanders R.A. and Watkins J.B.III (1996): Hepatobiliary excretion of cysteinyl leukotrienes in three experimental models of acute hepatic injury. *Inflamm. Res.*, 45: 523-529.
- [2] **Omar H.M.**, Sanders R.A. and Watkins J.B.III (1996): Minimal effect of acute experimental hepatitis induced by lipopolysaccharide/D-galactosamine on biotransformation in rats. *Biochem. Pharmacol.*, 52: 1921-1924.
- [3] Meki Abdel-Raheim M.A. and **Omar H.M.** (1997): A bradykinin potentiating fraction isolated from the venom of Egyptian scorpion *Buthus occitanus* induced prostaglandin biosynthesis in female guinea pigs. *Comp. Biochem. Physiol.*, 116 C (3):183-189.
- [4] **Omar H.M.**, Al-Sawi N.M. and Meki Abdel-Raheim M.A. (1997): Acute toxicity of the mycotoxin roridin E on liver and kidney of rats. *J. Appl. Anim. Res.*, 12: 145-152.
- [5] **Omar H.M.**, Rosenblum J.K., Sanders R.A. and Watkins J.B.III (1998): Streptozotocin may provide protection against subsequent oxidative stress of endotoxin or streptozotocin in rats. *J. Biochem. Molecular Toxicol.*, 12 :143-149.
- [6] **Omar H.M.** and A.El-Din Zain (2001): Antioxidants activities and changes in lipid peroxides and nitric oxide productions in cyclic corpora lutea and it's relation to serum progesterone levels in buffalo cows. *Buffalo Journal*, 1:79-89.

- [7] El-Sokkary G.H., **Omar H.M.**, Hassanein A.M.M., Cuzzocera S. and Reiter R.J.(2002): Melatonin reduces oxidative damage and increases survival of mice infected with *Schistosoma mansoni*. *Free Radical Biology and Medicine*, 32: 319-332.
- [8] Ahmed EA, **Omar HM**, Abd elghaffar SKh, Ragab SMM, and Nassar AY (2011): The antioxidant activity of vitamin C, DPPD and L- cysteine against cisplatin-induced testicular oxidative stress in rat. *Food Chem. Toxicol*, 49(5): 1115-1121.
- [9] **Omar H.M.**, Ibraheim Z.Z, El-Shimy N.A and Ali R.S (2012): Anti-inflammatory, antipyretic and antioxidant activities of the earthworms extract. *Journal of Biology and Earth Sciences*, 2 (1): B10-B17.
- [10] **Omar H.M.**, Ahmed E.A., Abd elghaffar SKh, Ragab SMM, and Nassar AY (2012): Hepatoprotective effects of vitamins C, DPPD, and L-cysteine against cisplatin-induced oxidative stress in male rats. *Journal of Biology and Earth Sciences*, 2 (1): B28-B36.
- [11] **Omar H.M.**; Saad El-dien H.M.; Sabed, M. A.; Al-Salahy, M.B. and Abel-Tawab H.S (2012): Alpha-lipoic acid and N-acetyl cysteine ameliorates oxidative stress and hepatic injury in alloxan-induced diabetic rabbits. *International Journal of Diabetes Research*, 1(1):7-17.
- [12] **Omar H.M.**, Ibraheim Z.Z, El-Shimy N.A and Ali R.S (2012): Analysis of FAME for Two Species of Earthworms *Allolobophora caliginosa* Savigny and *Pheretima hawayana* Rosa (Annelida-Oligochaeta).. *Journal of Biology and Earth Science*, 2(1):B37-B44.
- [13] Nassar, M A.Y.; Saad Eldien, H.M.; Abdel Tawab H.S; Saleem, T.H.; **Omar, H.M**; Nassar, A.Y.; Hussein, M.R. (2012): Time-dependent morphological and biochemical changes following cutaneous thermal burn injury and their modulation by copper nicotinate complex: an animal model. *Ultrastructural Pathology*, 36(5):343-355.
- [14] **Omar HM**, Abd-Elghaffar, S.Kh, Ahmed EA, Ragab SMM, and Nassar AY (2012): Vitamin C, N, N-diphenyl-p-phenylenediamine and L-cysteine ameliorate the pathological and oxidative stress-induced by cisplatin in the kidneys of male rats. *Journal of Free Radicals and Antioxidants*. Photon, 138:112-121.
- [15] **Omar, H. M.**; Saad El-Din, H.M.; Abd-Allah, E.A. and Sarhan, A.A.O. (2013): Role of the 3-aminothiazolo[3.2a] benzimidazole-2-carbonitrile in the rotection of hepatic and renal tissues against nitrosomorpholine toxicity adult rats. *Journal of Toxicology and Environmental Health Science*, Vol.5(7):111-120

- [16] Omar HM (2013): Biological and medical significance of poisonous animals. Review article. *Journal of Biology and Earth Science*, 3 (1): M25-M41.
- [17] Omar HM, Saad Eldien, HM, Badary, MS, Al- Khatib' BY (2013): The Immunomodulating and antioxidants activities of fucoidan on splenic tissue of rats treated with cyclosporine. *Journal of Basic and Applied Zoology*, 66: 243-254.
- [18] Ibrahim A Th A and Omar HM (2013): Seasonal variation of heavy metal accumulation in muscles of the African Catfish *Clarias gariepinus* and in River Nile water and sediments at Assiut. *Journal of Biology and Earth Sciences*, 201 3, Vol 3, Issue 2, B236-B248.
- [19] Ragab, SMM; Omar, HM; Sary Kh Abd elghaffar, SKh; El-Metwally, TH (2014): Hypolipidemic and antioxidant effects of phytochemical compounds against hepatic steatosis induced by high fat high sucrose diet in rats. Accepted for publication in **Archives of Biomedical Science**, 2(1):1-10.
- [20] Ayuob NN, Abdel-Tawab HS, Ali SS, Al-Hegami MA, Mohamed Basam Al-Salahy MB and Omar HM (2014): Comparative study on the effect of antioxidants α -lipoic acid and *N*-acetyl cysteine on the structure of the renal tubules of diabetic rabbits. **Egyptian Journal of Histology**, 37 (1): 56-66. doi: 10.1097/01.EHX.0000444071.64797.29
- [21] Ibrahim A Th, Magdy MA, Ahmed EA, Omar HM (2015): The protective effects of vitamin E and zinc supplementation against lithium-induced brain toxicity of male albino rats. *Environment and Pollution*, 1 4 (1): 9-18.
- [22] Omar HM, Abdel-Ghafar S Kh, Fiedan IO. Ahmed EA (2015): Thymoquinone ameliorate testicular toxicity induced by acrylamide in rats. *The Journal of Free Radicals and Antioxidants*. Photon, 142: 407-414
- [23] Abdel-Ghafar S Kh , Omar HM, Fiedan IO. Ahmed EA (215): Acrylamide induced testicular toxicity in rats: Protective effect of garlic oil. Abstract No.73 in *Reproduction in Domestic Animals* Vol. 50. Supplement 1 February, 2015.1-77.Wiley Blackwell.
- [24] Omar HM, Abdel-Ghafar S Kh, Fiedan IO. Ahmed EA (215): L-cysteine ameliorated testicular toxicity induced by acrylamide in rats. Abstract No.74 in *Reproduction in Domestic Animals* Vol. 50. Supplement 1 February, 2015.1-77.Wiley Blackwell.
- [25] Elswawi NM, Hassan ATA, Ahmed AM, Omar HM (2015): Relationship between the plasma levels of leptin, adiponectin and TNF-alpha in diabetic obesity and non-diabetic obesity in Sohag –Governorate, Egypt. *Journal of Diabetes and Obesity*, 2(1):1-4.
- [26] Omar HM, Abdel-Ghafar S Kh, Fiedan IO, Ahmed EA (2015): Thymoquinone ameliorate testicular toxicity induced by acrylamide in rats. *The Journal of Free Radicals and Antioxidants*. Photon 142: 407-414

- [27] Omar HM, Abdel-Ghafar S Kh, Fiedan IO, Ahmeda EA (2015): L-cysteine ameliorate testicular toxicity induced by acrylamide in rats. *European Journal of Biological Research*, Vol. 5(2): 1-8.
- [28] Elsayi NM, Omar HM, Hassan ATA, Ahmed AM, (2014): Study of C-peptide and glycoslated hemoglobin in obese and obese with type 2 diabetes and its relation with lipid profile from Sohag Governarate-Egypt. *Global Advanced Research Journal of Medicine and Medical Science*, 3(12):430-436.
- [29] Ragab SMM, Abd Elghaffar SKh, El-Metwally TH, Badr G, Mahmoud MH, Omar HM (2015): Effect of a high fat, high sucrose diet on the promotion of non-alcoholic fatty liver disease in male rats: the ameliorative role of three natural compounds. *Journal of Lipid in Health and Disease*, 14: 83. DOI 10.1186/s12944-015-0087-1.
- [30] Saleem TH, Attya AM, Ahmed EA, Ragab SMM, Abdallah M.A.Ali, Omar HM (2015): The possible protective effects of quercetin and sodium gluconate against colon cancer promotion by dimethylhydrazine in mice. *Asian Pacific Journal of Cancer Prevention*, 16:
- [31] Omar HM, Ibrahim A Th, Magdy, Ahmed EA (2016): The protective effect of zinc and vitamin E supplementation against kidney toxicity by lithium in rats. *European Journal of Biological Research*, 6(1): 21-27
- [32] Hassan AT, Omar HM, Elsayi NM, Ahmed AM (2016): Evaluation of serum cortisol, growth and thyroid hormones and its relation with lipolysis in non-diabetic obese and diabetic obese subjects attending Sohag Governorate, Egypt. *Global Advanced Research Journal of Medicine and Medical Science*,
- [33] Omar HM, Omar OHM, Badr G (2016): Review of pathophysiological aspects and risk factors for liver dysfunction. *Arch Clin Gastroenterol* 2 (1): 069-076. DOI: <http://doi.org/10.17352/2455-2283.000025>.
- [34] Elsayi NM, Omar HM, Hassan ATA, Ahmed AM (2016): Relationship of C-reactive proteins with oxidative stress and obesity in type 2 diabetic subjects. *J. Pharm. Appl. Chem.*, 2 (3): 163-171.
- [35] Hassan FAM, Abed GH, Abdel-Samii MAZ, Omar HM (2016): Antischistosomal activity of ginger aqueous extract against experimental *Schistosoma mansoni* infection in mice. *Biomarker Journal*, 2(2:20): 1-6.
- [36] Huseein EAM, Anwer FES, Abed GH, Abdel-Gahfar S Kh, Omar HM (2016): Keratitis induced by *Allovalkampa spelaea* in expermental rat model: a trial for treatment with ellagic acid. *European Journal of Biological Research*; 6 (4): 299-309.
- [37] Badr G, Sayed LH, Omar HM, Abd El-Rahimd AMA, Ahmed EA, Mahmoud MH (2017): Camel whey protein protects B and T cells from apoptosis by

suppressing activating transcription factor-3 (ATF-3)- mediated oxidative stress and enhancing phosphorylation of AKT and I κ B- α in type I diabetic mice. *Cell Physiol Biochem*;41:41-54.

- [38] Sayed LH, Badr G, Omar HM, Abd El-Rahim AM, Mahmoud MH (2017): Camel whey protein improves oxidative stress and histopathological alterations in lymphoid organs through Bcl-XL/Bax expression in a streptozotocin-induced type 1 diabetic mouse model. Submitted for publication in *Biomedicine & Pharmacotherapy*.
- [39] Badr G, Ramadan NK, Sayed LH, Badr MB, Omar HM, Selamoglu Z (2017): Why why? Camel whey protein as a new dietary approach for the management of free radicals and for the treatment of different health disorders. Submitted to *Iranian Journal of Basic Medical Sciences*.
- [40]