

## CURRICULUM VITAE

**MONA F. EL-AZAB, B.Pharm, M.Sc., Ph.D.**

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### **Education**

**Ph.D. (Pharmacology & Toxicology): March 2007**

Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt.

Dissertation: “*Role of Angiogenesis in the Progression of Neoplasm in Experimental Animals*”.

**M.Sc. (Pharmacology & Toxicology): July 2003**

Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt.

Dissertation: “*Study of the Effect of Natural versus Recombinant Interferon on the Hepatic and Bone Marrow Functions in Normal, Cirrhotic and Immunosuppressed Rats*”.

**B.Pharm.: May 1999**

Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt.

Cumulative Grade: Excellent with honor, GPA 3.8, and Top-3<sup>rd</sup> Student.

### **Academic Affiliations**

**Associate Professor & Head:** (Jan. 2013 – )

Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt.

**Postdoctoral Fellow:** (Feb. 2011- July 2012)

Clinical and Experimental Therapeutics, College of Pharmacy, University of Georgia, Augusta, GA, USA and Vision Discovery Institute, Georgia Health Sciences University, Augusta, GA, USA.

**Assistant Professor:** (2007-2012)

Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt.

**Lecturer:** (2003-2007)

Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt.

**Instructor:** (1999-2003)

Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt.

### **Professional Affiliations**

- 2014- Director of E-Learning at Education Development Center, Suez Canal University.  
2013 Member of the International Cannabinoid Research Society (ICRS).  
2012 Member of the Association for Research in Vision and Ophthalmology (ARVO).  
2011- Member of the American Society for Pharmacology and Experimental Therapeutics (ASPET).  
2011- Member of the Middle-Eastern Association for Cancer Research (MEACR).  
2010- Member and representative of the Egyptian Society of Natural Toxins, Suez Canal University, Egypt.  
2010- Member of the Egyptian Society of Pharmacology and Experimental Therapeutics (ESPET), Egypt.  
2009- Member of the Egyptian Society for Environmental Sciences (ESES), Suez Canal University, Egypt.  
1999- Member of the Syndicate of Pharmacists, Egypt.  
1999- Member of the Professional Society of Pharmacists, Egypt.

### **Awards & Honors**

- 2014- Editorial board of the Pharmacologia, UK.  
2014 Coordinator of the 6<sup>th</sup> International Conference on Natural Toxins, Suez Canal University (15-16 December 2012).  
2013 Evaluator for STDF (Science and Technology Development Fund) projects, Ministry of Health, Egypt.  
2011-2012 Postdoctoral Scholarship, Islamic Development Bank (IDB), KSA.  
2012 Coordinator of the 5<sup>th</sup> International Conference on Natural Toxins, Suez Canal University (17-19 December 2012).  
2011- Editorial board of the Egyptian Journal of Natural Toxins.  
2010 Member of the organizing committee of the 4<sup>th</sup> International Conference on Natural Toxins, Suez Canal University (20-22 December 2010).  
2004-2007 Fellowship for Ph.D. Degree, Suez Canal University, Egypt.  
2000-2003 Fellowship for Master's Degree, Suez Canal University, Egypt.  
1998 Certificate of Merit for Distinction in the 3<sup>rd</sup> year examinations, 6th October University, Egypt.  
1997-1998 Honor Student, Faculty of Pharmacy, Suez Canal University, Egypt.

### **Editorial Board**

- Pharmacologia, UK.  
Egyptian Journal of Natural Toxins, Egypt.

### **Peer Reviewer**

1. Naunyn-Schmiedeberg's Archives of Pharmacology (NSAP)
2. Natural Product Research (NPR)
3. Regenerative Medicine
4. Diabetes/Metabolism Research and Reviews (DMRR)
5. Disease Markers
6. Journal of the Pancreas (JOP)
7. Biochemistry & Analytical Biochemistry
8. Current Pharmaceutical Analysis

### Organization of Conferences and Workshops

- 6<sup>th</sup> International Conference on Natural Toxins, Suez Canal University, 2014.
- Workshop on “How to use EndNote Program in Writing Scientific Manuscripts and Thesis”, Faculty of Pharmacy, Suez Canal University, 2014.
- Workshop on “IHC techniques”, Faculty of Pharmacy, Suez Canal University, 2014.
- Workshop on “Image analysis using ImageJ”, Faculty of Pharmacy, Suez Canal University, 2014.
- Workshop on “Prezi for presentation”, Faculty of Pharmacy, Suez Canal University, 2014.
- Workshop on “Safety Measurements in Pharmacy Laboratories”, Faculty of Pharmacy, Suez Canal University, 2013.
- 5<sup>th</sup> International Conference on Natural Toxins, Suez Canal University, 2012.
- 4<sup>th</sup> International Conference on Natural Toxins, Suez Canal University, 2010.
- Workshops on FP7, Education Development Center, Suez Canal University, 2008.

### Invited lectures

- 2013      *3rd World Diabetes & Obesity Online Conference*, Texas, USA;  
Presentation title: Ameliorative effect of acetyl-L-carnitine and/or nifedipine against selenite-induced cataractogenesis in young albino rats.
- 2010      *15th Congress of the European Hematology Association (EHA)*, Barcelona, Spain;  
Presentation title: Anti-angiogenic effect of resveratrol or curcumin through inhibition of MVD, VEGF and its receptor VEGFR-2 in Ehrlich ascites carcinoma-bearing mice.
- 2009      *14th Congress of the European Hematology Association (EHA)*, Berlin, Germany;  
Presentation title: Role of vascular endothelial growth factor in Ehrlich ascites carcinoma: modulatory effects of thalidomide, rofecoxib and captopril.
- 2008      *13th Congress of the European Hematology Association (EHA)*, Copenhagen, Denmark; Presentation title: Comparative study on hematopoietic toxicity of cisplatin and non-traditional antitumor agents in Ehrlich ascites carcinoma.
- 2008      *Evidence Based Laboratory Medicine and Total Quality Management Workshop*, Faculty of Medicine, Suez Canal University, Egypt; Presentation title: Evidence-Based Medicine in the Pharmacy.

### **Representative Publications**

#### **A. Peer-reviewed publications**

1. **El-Azab MF**, Baldowski BRB, Mysona BA, Matragoon S, Abdelsaid MA, Shanab AY, Mohamed IN, Bollinger KE, Saul A, El-Remessy AB. Deletion of TXNIP Preserve Retinal Neuronal Function By Mitigating Inflammation And Vascular Injury. *Br J Pharmacol* 2014; 171(5):1299-313.
2. Mohamed R, Moustafa YM, **El-Azab MF**. Evening primrose oil and celecoxib inhibited pathological angiogenesis, inflammation, and oxidative stress in adjuvant-induced arthritis: novel role of angiopoietin-1. *Inflammopharmacology* 2014; 22(5):305-17.

3. Farghaly LM, Ghobashy W, Shoukry Y, **El-Azab MF**. Ameliorative effect of acetyl-L-carnitine and/or nifedipine against selenite-induced cataractogenesis in young albino rats. *Eur J Pharmacol* 2014; 729:1-9.
4. Shanab AY, Elshaer SL, **El-Azab MF**, Soliman S, Sabbineni H, Matragoon S, Fagan SC, El-Remessy AB. Candesartan stimulates reparative angiogenesis in ischemic retinopathy model: role of hemeoxygenase-1 (HO-1). *Angiogenesis*. 2014 Nov 25. [Epub ahead of print] PMID:25420481
5. Mysona BA, Al-Gayyar MM, Matragoon S, Abdelsaid MA, **El-Azab MF**, Saragovi HU, El-Remessy AB. Modulation of p75(NTR) prevents diabetes- and proNGF-induced retinal inflammation and blood-retina barrier breakdown in mice and rats. *Diabetologia*. 2013;56(10):2329-39.
6. Al-Gayyar MM, Mysona BA, Matragoon S, Abdelsaid M, **El-Azab MF**, Shanab AY, Yonju Ha Y, Smith SB., Bollinger KE, El-Remessy AB. Diabetes and overexpression of proNGF cause retinal neurodegeneration via activation of RhoA pathway. *PLoS One* 2013;8(1):e54692.
7. **El-Azab MF**, Mohamed R, Moustafa YM. Anti-Angiogenic Effect of Evening Primrose Oil and Celecoxib in Experimental Rheumatoid Arthritis: Novel role of angiopoietin-1. *FASEB Journal* 27.
8. **El-Azab MF**, Ammar R., Abdel-Hamid M, Y Moustafa YM. A new strategy to block tumor angiogenesis by inhibiting endocannabinoid inactivation. *FASEB Journal* 27.
9. Azab H.A., Hussein BH, **El-Azab MF**, Gomaa M., El-Falouji A.I. Bis(acridine-9-carboxylate)-nitro-europium(III) dihydrate complex a new apoptotic agent through Flk-1 down regulation, caspase-3 activation and oligonucleosomes DNA fragmentation. *Bioorg Med Chem*. 2013; 21(1):223-34.
10. Moustafa Y.M., Fouda A.S., **El-Azab M.F.** 15-PGDH inhibitors: the antiulcer effects of carbenoxolone, pioglitazone and verapamil in indomethacin induced peptic ulcer rats. *Eur Rev Med Pharmacol Sci* 2013; 17(15):2000-9.
11. **El-Azab M.F.**, Hazem R.M., Moustafa Y.M. Role of simvastatin and/or antioxidant vitamins in therapeutic angiogenesis in experimental diabetic hindlimb ischemia: effects on capillary density, angiogenesis markers, and oxidative stress. *Eur J Pharmacol* 2012; 690(1-3):31-41.
12. **El-Azab M.F.**, Moustafa Y.M. Influence of calcium channel blockers on anticonvulsant and antinociceptive activities of valproic acid in pentylenetetrazole-kindled mice. *Pharmacol Rep* 2012; 64: 305-314.
13. **El-Azab M.F.**, Mysona B.A., Abdelsaid M.A., El-Remessy A.B. Down-Regulation Of TXNIP Prevents Retinal Neurodegeneration By Mitigating Inflammation And Vascular Injury. *ARVO* 1657/D888.
14. Hussein B.H., Azab H.A., **El-Azab M.F.**, Ismail A. A novel anti-tumor agent, La(III) 2-thioacetic acid benzothiazole induces anti-angiogenic and cell death in cancer cell lines. *Eur J Med Chem* 2012; 51: 99-109.
15. **El-Azab M.F.**, Hishe H.Z., Moustafa Y.M., El-Awady E.S. Antiangiogenic effect of resveratrol or curcumin in Ehrlich ascites carcinoma-bearing mice. *Eur J Pharmacol* 2011; 652: 7-14.
16. **El-Azab M.F.**, Attia F.M, El-Mowafy A.M. Novel role of curcumin combined with bone marrow transplantation in reversing experimental diabetes: Effects on pancreatic islet regeneration, oxidative stress, and inflammatory cytokines. *Eur J Pharmacol* 2011; 658: 41-8.
17. **El-Azab M.F.**, Mysona B.A., El-Remessy A.B. Statins for prevention of diabetic-related blindness: a new treatment option? *Expert Rev Ophthalmol* 2011; 6(3), 269-72.

18. El-Mowafy A.M., Abdel-Dayem M.A., Abdel-Aziz A., **El-Azab M.F.**, Said S.A. Eicosapentaenoic acid ablates valproate-induced liver oxidative stress and cellular derangement without altering its clearance rate: dynamic synergy and therapeutic utility. *Mol Cell Biol Lipids-BBA* 2011; 1811(7-8):460-7.
19. El-Mowafy A.M., Salem H.A., Al-Gayyar M.M., El-Mesery M.E., **El-Azab M.F.** Evaluation of the renal protective effects of the green-tea (EGCG) and red-grape's resveratrol: role of oxidative stress and inflammatory cytokines. *Nat Prod Res* 2011; 25(8):850-6.
20. Elmadani M.F., Moustafa Y.M., **El-Azab M.F.**, Pelkonen O. Investigation of mechanism based inhibition of CYP450 enzymes by selected organophosphorous, pyrethroids and benzoyl urea pesticides in pooled human liver microsomes. *Therapeutics, Pharmacology and Clinical Toxicology* 2011; 15(3), 197-204.  
[<http://www.terapeutica.ro/Issues/2011/number3/pdf/OP2.Pelkonen.pdf>]
21. **El-Azab M.F.**, El-Awady E.S., Moustafa Y.M., Abd-El-Hamid A.S. Effects of thalidomide, rofecoxib and captopril on vascular endothelial growth factor in Ehrlich ascites carcinoma. *Haematologica* 2009; 94[*suppl.2*]:234 *abs. 0572*.  
[<http://online.haematologica.org/EHA14/browserecord.php?-action=browse&-recid=3678>] &  
[[http://www.pharma.cu.edu.eg/Files/BFOPCU/Volumes/TOC\\_2006\\_V44\\_Issue\\_3/15\\_03\\_2006.html](http://www.pharma.cu.edu.eg/Files/BFOPCU/Volumes/TOC_2006_V44_Issue_3/15_03_2006.html)]
22. **El-Azab M.F.**, El-Awady E.S., Moustafa Y.M., Abd-El-Hamid A.S. Comparative study on hematopoietic toxicity of cisplatin and non-traditional antitumor agents in Ehrlich ascites carcinoma. *Haematologica* 2008; 93(*s1*):518 *Abs.1354*.  
[<http://online.haematologica.org/EHA13/browserecord.php?-action=browse&-recid=2907>]

#### **B. Peer-reviewed publications in national journals**

23. **El-Azab M.F.**, Hishe H.Z., Moustafa Y.M., El-Awady E.S. Effects of resveratrol and curcumin on tumor volume and survival in Ehrlich ascites carcinoma-bearing mice. *Bull Fac Pharm Cairo Univ* 2009; 47(3): 207-223.  
[[http://www.pharma.cu.edu.eg/Files/BFOPCU/Volumes/TOC\\_2009\\_V47\\_Issue\\_3/14\\_03\\_2009.html](http://www.pharma.cu.edu.eg/Files/BFOPCU/Volumes/TOC_2009_V47_Issue_3/14_03_2009.html)]
24. El-Awady E.S., **El-Azab M.F.**, Moustafa Y.M., Abd-El-Hamid A.S. Anti-tumor and anti-angiogenic effects of thalidomide, rofecoxib, and captopril in Ehrlich ascites carcinoma in mice. *Zagazig J Pharm Sci* 2005; 14(1):33-42.
25. Hassan M.S., **El-Azab M.F.**, El-Awady E.S., Abou El-Ela S.H. Effects of natural versus recombinant interferon on bone marrow functions in immunosuppressed rats. *Bull Fac Pharm Cairo Univ* 2003; 41(1):229-237.  
[[http://www.pharma.cu.edu.eg/Files/BFOPCU/Volumes/TOC\\_2003\\_V41\\_Issue\\_1/019.htm](http://www.pharma.cu.edu.eg/Files/BFOPCU/Volumes/TOC_2003_V41_Issue_1/019.htm)]
26. Hassan M.S., **El-Azab M.F.**, El-Awady E.S., Abou El-Ela S.H. Effects of natural and recombinant interferon on carbon tetrachloride-induced liver cirrhosis. *Zagazig J Pharm Sci* 2001; 10(2):11-17.

## **Representative Abstracts and Conference Presentations**

1. *6<sup>th</sup> International Conference on Natural Toxins, Cairo, Egypt; 2014. Poster/Abstract:* GLP-1 agonist and 17- $\beta$ -estradiol up-regulate  $\alpha$ -estrogen receptor with modulation of IGF-1/IGF-2 system conferring cardioprotection
2. *6<sup>th</sup> International Conference on Natural Toxins, Cairo, Egypt; 2014. Poster/Abstract:* Differential effect of macrolide antibiotics in chemically-induced hepatocellular carcinoma.
3. *6<sup>th</sup> International Conference on Natural Toxins, Cairo, Egypt; 2014. Poster/Abstract:* Protective Effect of l-carnitine, omega 3 and thymoquinone against amiodarone-induced pulmonary fibrosis.
4. *6<sup>th</sup> International Conference on Natural Toxins, Cairo, Egypt; 2014. Oral Presentation /Abstract:* Activation of GLP-1R preserves dopaminergic neurons in rotenone-induced Parkinsonism.
5. *Experimental Biology (EB) 2013, American Society of Experimental Biology and Therapeutics (ASPET), Boston, Massachusetts, USA; 2013. Poster/Abstract:* A new strategy to block tumor angiogenesis by inhibiting endocannabinoid inactivation.
6. *Experimental Biology (EB) 2013, American Society of Experimental Biology and Therapeutics (ASPET), Boston, Massachusetts, USA; 2013. Poster/Abstract:* Anti-angiogenic effect of evening primrose oil and celecoxib in experimental rheumatoid arthritis: Novel role of angiopoietin-1.
7. *5<sup>th</sup> International Conference on Natural Toxins, Cairo, Egypt; 2012. Poster/Abstract:* Inhibition of endocannabinoid reuptake is an innovative strategy to impede tumor growth.
8. *Graduate Students and Postdocs in Science (GSPS), 4<sup>th</sup> Annual Scientific Research Day, Athens, GA, USA; 2012. Poster/Abstract:* Down-regulation of TXNIP prevents retinal neurodegeneration by mitigating inflammation and vascular injury.
9. *Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL, USA; 2012. Poster/Abstract:* Down-regulation of TXNIP prevents retinal neurodegeneration by mitigating inflammation and vascular injury.
10. *VA research day 2012, Augusta, GA, USA.*
11. *Southern Translational Education and Research Conference (STaR), Augusta, GA, USA; 2011. Poster/Abstract:* Down-regulation of thioredoxin interacting protein (TXNIP) prevents retinal neurovascular degeneration.
12. *Graduate Students and Postdocs in Science (GSPS), 3<sup>rd</sup> Annual Scientific Research Day, Athens, GA, USA; 2011. Poster/Abstract:* Down-regulation of thioredoxin interacting protein (TXNIP) prevents retinal neurotoxicity.
13. *VA research day 2011, Augusta, GA, USA.*
14. *UGA research day 2011, Augusta, GA, USA.*
15. *15<sup>th</sup> Congress of the European Hematology Association (EHA), Barcelona, Spain; 2010. Oral Presentation/Abstract:* Anti-angiogenic effect of resveratrol or curcumin through inhibition of MVD, VEGF and its receptor VEGFR-2 in Ehrlich ascites carcinoma-bearing mice.

16. *Experimental Biology (EB) 2010, American Society of Experimental Biology and Therapeutics (ASPET), Anaheim, California, USA; 2010. Poster/Abstract:* Effect of resveratrol or curcumin on tumor volume and survival in Ehrlich ascites carcinoma-bearing mice.
17. *14<sup>th</sup> Congress of the European Hematology Association (EHA), Berlin, Germany; 2009. Oral Presentation/Abstract:* Role of vascular endothelial growth factor in Ehrlich ascites carcinoma: modulatory effects of thalidomide, rofecoxib and captopril.
18. *13<sup>th</sup> Congress of the European Hematology Association (EHA), Copenhagen, Denmark; 2008. Oral Presentation/Abstract:* Comparative study on hematopoietic toxicity of cisplatin and non-traditional antitumor agents in Ehrlich ascites carcinoma.
19. *Evidence Based Laboratory Medicine and Total Quality Management Workshop, Faculty of Medicine, Suez Canal University, Ismailia, Egypt; 2008. Oral Presentation:* Evidence-Based Medicine in the Pharmacy.
20. *The 1<sup>st</sup> International Conference of Cancer Chemoprevention: "Targets and Mechanisms", National Research Center, Cairo, Egypt; 2006. Poster/Abstract:* Effects of thalidomide, captopril, and rofecoxib on VEGF in Ehrlich ascites carcinoma.
21. *The 47<sup>th</sup> Annual Conference of Egyptian Society of Pharmacology & Experimental Therapeutics (ESPET), Helwan University, Egypt; 2005. Poster/Abstract:* Antitumor and anti-angiogenic effects of thalidomide, rofecoxib, and captopril in Ehrlich ascites carcinoma in mice.
22. *The 1<sup>st</sup> International Congress of Pharmaceutical and Drug Industries Division "Towards Safe and Active Drug", National Research Center, Cairo, Egypt; 2003. Poster/Abstract:* Effects of natural versus recombinant interferon on bone marrow functions in immunosuppressed rats.
23. *The 46<sup>th</sup> Annual Conference of the Egyptian Society of Pharmacology & Experimental Therapeutics, Zagazig University, Egypt; 2003. Poster/Abstract:* Effects of natural and recombinant interferon on carbon tetrachloride-induced liver cirrhosis.

**Attended Conferences, Webinars, Workshops and Training Courses**

1. *The 54<sup>th</sup> Annual Conference of the Egyptian Society of Pharmacology & Experimental Therapeutics (ESPET), British University of Egypt, Al-Shorouq, Egypt; 2014.*
2. *Workshop on “Scientific Research Ethics and its Publication”, Faculty of Medicine, Suez Canal University, Ismailia, Egypt; 2014.*
3. *Workshop on “Internationalization of Higher Education”, Faculty of Medicine, Suez Canal University, Ismailia, Egypt; 2014.*
4. *Workshop on "Strategic Planning", National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Suez Canal University, Ismailia, Egypt; 2014.*  
*ورشة عمل التخطيط الإستراتيجي*
5. *Workshop on “Description of Courses”, National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Suez Canal University, Ismailia, Egypt; 2014.*  
*ورشة عمل توصيف المقررات*
6. *Workshop on "External Reviewer", National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Suez Canal University, Ismailia, Egypt; 2014.*  
*ورشة عمل مراجع خارجي*
7. *Workshop on "Self-Assessment", National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Suez Canal University, Ismailia, Egypt; 2014.*  
*ورشة عمل التقييم الذاتي*
8. *The 10<sup>th</sup> Annual Conference of Clinical Pathology Department “Laboratory Challenges for Molecular Medicine”, Faculty of Medicine, Suez Canal University, Ismailia, Egypt; 2013.*
9. *Workshop on “Introduction to Bioinformatics”, Biotechnology Research Center (BRC), Suez Canal University, Ismailia, Egypt; 2013.*
10. *Webinar series on cancer and inflammation: The role of TLR and microRNAs in inflammation, QIAGEN, 2013.*
11. *Webinar on Insulin resistance regulation and energy metabolism, QIAGEN, 2013.*
12. *qPCR Webinar Series: qPCR technology overview, applications, data analysis and interpretation, QIAGEN, 2013.*
13. *The Molecular Regulation of Stem Cell Quiescence Webinar given by Prof. Thomas Rando – Department of Neurology and Neurological Sciences, School of Medicine, Stanford University on October 16<sup>th</sup> 2013.*
14. *Workshop on “Strategic Planning”, Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt; 2013.*
15. *Workshop on “How to write a successful grant proposal?”, Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt; 2013.*
16. *Workshop on “Skills using global databases in the conduct of scientific research” Suez Canal University, Ismailia, Egypt; 2012.*
17. *Research Conduct and Grant Writing Course (PHRM7210), Program in Clinical & Experimental Therapeutics, College of Pharmacy, University of Georgia, USA; 2011.*



18. *4<sup>th</sup> International Conference on Natural Toxins, Ismailia, Egypt; 2010.*
19. *Workshop on “Health & Safety in Laboratories”, Community Medicine Department, Faculty of Medicine, Suez Canal University, Ismailia, Egypt; 2010.*
20. *Practical Workshop on: Principles of Biotechnology and Genetic Engineering, Biotechnology Research Center (BRC), Suez Canal University, Ismailia, Egypt; 2010.*
21. *Workshop on Accreditation of High Education Institutes, Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt; 2010.*
22. *The 51<sup>st</sup> Annual Conference of the Egyptian Society of Pharmacology & Experimental Therapeutics (ESPET), Ain Shams University, Cairo, Egypt; 2010.*
23. *Workshop on How to Prepare an E-Course. Education Development Center, E-Learning Center, Suez Canal University, Ismailia, Egypt; 2009.*
24. *The Fourth International Conference of the Egyptian Society for Environmental Sciences “Impacts of Climate Change on Natural Resources”, Ismailia, Egypt; 2009.*
25. *1<sup>st</sup> Conference on Scientific Research Ethics, Suez Canal University, Ismailia, Egypt; 2009.*
26. *The 1<sup>st</sup> Euro-Mediterranean Conference on Marine Natural Products, Sharm El-Sheikh, Egypt; 2008.*
27. *The 2<sup>nd</sup> International Conference of the Arab Society for Medical Research (ASMR): Medical Research in the Arab World – Modes of Collaboration and Development, National Research Center, Cairo, Egypt; 2008.*
28. *Scientific Workshop on: Application of Image Analysis System in Histopathological Research, National Research Center, Cairo, Egypt; 2008.*
29. *Practical Workshop on: Stem Cell Separation, Faculty of Medicine, Suez Canal University, Ismailia, Egypt; 2008.*
30. *Practical Workshop on: Bioassay for Developing and Screening of New Cancer Chemopreventive Drugs, National Research Center, Cairo, Egypt; 2006.*
31. *Scientific Workshop on: Gene Quantification: Techniques & Applications, 23<sup>rd</sup> International Annual Ain Shams Medical Congress, Medical Research Center, Ain Shams University, Cairo, Egypt; 2000.*

**Supervision of M.Sc. and Ph.D. Thesis**

1. Mentoring of the Dutch scholar Mr. Hailemichael Z. Hishe, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University graduated from Mekelle University, Ethiopia, 2008-2010. Topic: "Effect of Natural Products, Curcumin and Resveratrol, on Angiogenesis in Ehrlich Ascites Carcinoma in Mice". Funded by Maastricht University Centre for International Cooperation in Academic Development (MUNDO).
2. Mentoring of Ms. Reem M. Hazem, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2009-2012. Title "The Angiogenic Effect of Simvastatin and Antioxidant Actions of Vitamin C and Vitamin E on Hind Limb Ischemia in Diabetic Rat".
3. Mentoring of Ms. Manar F. Elmadani, M.Sc. student at the Department of Pharmacology and Toxicology, Institute of Biomedicine, University of Oulu, Finland, 2010-2012. Topic "An Evaluation of the Cytochrome P450 Inhibition Potential of Selected Xenobiotics in Human Hepatic Microsomes".
4. Mentoring of Mr. Ahmed S. Fouda, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2010-2013. Title "Characterization of Carbenoxolone, Pioglitazone and Verapamil Gastro-protection in Indomethacin-Induced Peptic Ulcer in Rats".
5. Mentoring of Ms. Rehab M. El-Sayed, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2009-2014. Title "Investigation of the Anti-angiogenic Effect of Celecoxib and Evening Primrose Oil in Experimental Rheumatoid Arthritis Model".
6. Mentoring of Ms. Nagwa I. Abd El-Hamid, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2013-present.
7. Mentoring of Ms. Nancy M. Abdel-Kareem, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2013-present.
8. Mentoring of Ms. Lina R. Eissa, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2013-present.
9. Mentoring of Ms. Israa Abdel Fattah, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2014-present.
10. Mentoring of Mr. Abdullah I. El-Falouji, Ph.D. student at the Department of Chemistry, Faculty of Science, Suez Canal University, 2009-2012. Title: "A novel anti-tumor agent, La(III) 2-thioacetic acid benzothiazole induces anti-angiogenic and cell death in cancer cell lines".

11. Mentoring of Mr. Rami M. Ammar, Ph.D. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University & Sinai University. 2010-present.
12. Mentoring of Mr. Mohamed S. Megahed, Ph.D. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University & Sinai University. 2013-present.
13. Mentoring of Mr. Ahmed F. El-Wakiel, Ph.D. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University & Sinai University. 2013-present.
14. Mentoring of Ms. Reem M. Hazem, Ph.D. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2013-present.
15. Mentoring of Ms. Ghada Badawi, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2013-present.
16. Mentoring of Ms. Ahmed Darwish, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2013-present.
17. Mentoring of Ms. Karim Tawfic, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2014-present.
18. Mentoring of Ms. Eman Khedr, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2014-present.
19. Mentoring of Ms. Mahmoud Elsaid, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2014-present.
20. Mentoring of Ms. Radwa Mohamed, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2014-present.
21. Mentoring of Ms. Mahmoud Khalil, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2014-present.
22. Mentoring of Ms. Mohammed El-Sayed, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2014-present.
23. Mentoring of Ms. Amira Shoukry, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2014-present.
24. Mentoring of Ms. Abdulrahman Muaydh, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University, 2014-present.
25. Mentoring of Ms. Heba M. Hashem, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University & Sinai University, 2015-present.

26. Mentoring of Ms. Mariam G. Tadros, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University & Sinai University, 2015-present.
27. Mentoring of Ms. Abeer A. El-sayed, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University & Sinai University, 2015-present.
28. Mentoring of Ms. Naglaa Khaled, M.Sc. student at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University & Sinai University, 2015-present.

## **Research Support**

### **Completed Research**

#### ***Postdoctoral fellowship funded by the IDB***

Title: Thioredoxin interacting protein (TXNIP) is a neuroglial inflammatory mediator in Glaucoma and models of optic neuropathy

PI: El-Azab M.F.

Sponsor: El-Remessy A.B., UGA, Augusta, GA, USA

Agency: Islamic Development Bank (IDB)

Period: 3/01/2011-2/29/2012

Role: Post-doctoral Trainee

The goal of this fellowship is to get some postdoctoral training on recent molecular techniques and some animal models through studying the role of TXNIP down regulation in the prevention of neurovascular retinal degeneration.

#### ***Fellowship for Master's Degree (Project # NPT/ETH/107)***

Title: Effect of Natural Products "Curcumin and Resveratrol" on Angiogenesis in Ehrlich Ascites Carcinoma in Mice

PI: Hishe H.Z. (Dutch scholar)

Sponsor: El-Azab M.F., Faculty of Pharmacy, Suez Canal University, Egypt.

Agency: Maastricht University Centre for International Cooperation in Academic Development (MUNDO)

Period: 10/01/2007-3/31/2010

Role: Supervisor

The goal was to train an Ethiopian graduate student-Dutch scholar on the basic biochemical and molecular techniques in pharmacology, induction of animal model for solid tumor and writing manuscript and thesis towards fulfilling the requirements for the Master's Degree in Pharmaceutical Sciences (Pharmacology and Toxicology).

## **Previous Research Projects**

- Principal investigator in the project entitled "Role of TXNIP in models of optic neuropathy", University of Georgia, USA.
- Co-investigator in the project entitled "Role of proNGF/RhoA pathway in retinal neurodegeneration", University of Georgia, USA.
- Co-investigator in the project entitled "Inflammatory role of proNGF/p75NTR in the diabetic retina", University of Georgia, USA.
- Co-investigator in the project entitled "Vascular protective effects of Candesartan in retinopathy of prematurity", University of Georgia, USA.

## **Activities**

- Director of E-Learning at Education Development Center, Suez Canal University, Ismailia- Egypt.
- An active member of the implementation team of Higher Education Enhancement Project Fund (HEEPF), Faculty of Pharmacy, Suez Canal University, Ismailia- Egypt.
- An active member of the implementation team of Quality Assurance and Accreditation Project (QAAP), Faculty of Pharmacy, Suez Canal University, Ismailia- Egypt.
- An active member of the implementation team of Continuous Improvement and Qualifying for Accreditation Project (CIQAP), Faculty of Pharmacy, Suez Canal University, Ismailia- Egypt.
- Academic Advisor, Program in Clinical Pharmacy, Faculty of Pharmacy, Suez Canal University, Egypt (2009-2010).

## **Teaching Experience**

### **A. Undergraduates Teaching**

1. Participated in teaching Pharmacology, Toxicology and Bioassay & Biostatistics courses; Faculty of Pharmacy, Suez Canal University (2007-present).
2. Supervised and conducted Pharmacology, Toxicology and Bioassay Laboratory courses; Faculty of Pharmacy, Suez Canal University (1999-2007).
3. Participated in teaching Cell Biology (MD102); Biophysics (MD 101), Pharmacology I (PO 701), Pharmacology II (PO 801), Oncology (PP 908) and Toxicology & Forensic Chemistry (PO 904) courses; Clinical Pharmacy Program, Faculty of Pharmacy, Suez Canal University.
4. Participated in teaching Bioassay & Biostatistics course PHL531 (Fall and Spring semesters, 2008); Faculty of Pharmacy, Misr International University (MIU).
5. Supervised Bioassay Laboratory course PHL531 (Spring semester, 2009); Faculty of Pharmacy, Misr International University (MIU).
6. Principal coordinator of Bioassay & Biostatistics course PHL531 (spring semester, 2009), Faculty of Pharmacy, Misr International University (MIU).
7. External examiner in Oral exams in many Faculties of Pharmacy in Egypt including: Cairo University, Ain Shams University, Mansoura University, Al-Azhar University, Misr International University (MIU), Misr University for Science and Technology (MUST).

### **B. Postgraduates Teaching**

- Participated in teaching Immunology, Toxicometrics, Pharmacometrics and Pathophysiology special courses for postgraduate Master's students; Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University (2007-present).