

Curriculum Vitae

Elham Awad Ali Afify, Ph.D.

University of Alexandria

Faculty of Pharmacy

Department of Pharmacology

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Education

1. Ph.D. in pharmacology (1994) entitled” An investigation of the role of extracellular and intracellular calcium levels in insulin secretion in rats”
2. M.Sc. in Pharmacology (1990) entitled” Effect of some pharmacologically active agents on the metabolism of liver mitochondria and microsomal enzymes”
3. B. Pharmacy with the grade distinction honor (1985) Faculty of Pharmacy, Alexandria University, Egypt

Employment History

1. Assistant Professor of Pharmacology, Department of Pharmacology, Faculty of Pharmacy, Alexandria University, Egypt (2016 -)
2. Associate professor of pharmacology and toxicology, Department of Pharmacology Faculty of Pharmacy, King Abdulaziz University, Saudi Arabia (2005-June 2016)
3. Assistant Professor of Pharmacology (September 2003-June 2005) Department of Pharmacology Faculty of Pharmacy, Beirut Arab University, Lebanon
4. Assistant Professor of Pharmacology (May 2003- September 2003) Department of Pharmacology, Faculty of Pharmacy, Alexandria University, Egypt
5. Lecturer of Pharmacology (Sept 1997-April 2003) Department of Pharmacology Faculty of Pharmacy, Alexandria University, Egypt.
6. Full-time Postdoctoral associate position (Sep 1995-Sept 1997) Department of Pharmacology, Medical School, University of Minnesota, USA
7. Assistant lecturer of Pharmacology (1990-1995) Department of Pharmacology Faculty of Pharmacy, Alexandria University, Egypt
8. Demonstrator of Pharmacology (1985-1990) Department of Pharmacology, Faculty of Pharmacy, Alexandria University, Egypt.

Awards

1. Egyptian Pharmaceutical Companies Award for Distinction Honor Graduate (1985)
2. Egyptian Pharmaceutical Companies Award for top graduate in applied pharmacognosy (1985)

Academic teaching experience

1. Teaching pharmacology (PHAD 302) Bridging program for dental assistant and dental hygienist. Faculty of dentistry, King Abdulaziz University, Saudi Arabia (2013-1014)
2. Teaching biostatistics course to postgraduate Pharmacy students, Faculty of Pharmacy, King Abdulaziz University, Saudi Arabia (2010 -2014)
3. Teaching biostatistics course to postgraduate students, Faculty of Medicine, King Abdulaziz University, Saudi Arabia (2011-2012)
4. Teaching Pharmacology course to undergraduate Nursing students, College of King Saud Bin Abdulaziz university, Faculty of nursing.(2010)
5. Teaching Pharmacology, Toxicology, and biostatistics courses to undergraduate Pharmacy students, Faculty of Pharmacy, King Abdulaziz University, Saudi Arabia
6. Teaching Pharmacology courses to undergraduate Pharmacy students, Faculty of Pharmacy, Beirut Arab University, Lebanon
7. Teaching Biological assay courses to undergraduate Pharmacy students, Faculty of Pharmacy, Beirut Arab University, Lebanon
8. Teaching Pharmacology, Biological assay courses to graduate Pharmacy students, Faculty of Pharmacy, Beirut Arab University, Lebanon
9. Teaching Pharmacology courses to undergraduate Pharmacy students, Faculty of Pharmacy, University of Alexandria, Egypt
- 10- Teaching Biological assay courses to undergraduate Pharmacy students, Faculty of Pharmacy, University of Alexandria, Egypt
- 11- Teaching Pharmacology courses to graduate Pharmacy students, Faculty of Pharmacy, University of Alexandria, Egypt
- 12- Teaching laboratory courses of Pharmacology, Biochemistry, Bioassay to undergraduate Pharmacy students, Faculty of Pharmacy, University of Alexandria, Egypt

Skills

1. Stereotaxic injections in rat brain
2. Behavioral experiments: tail flick test, catalepsy recording
3. Mastering the techniques of perfusion of isolated rat pancreas
4. Handling experimental animals (mice, rats guinea pigs)
5. Collection of blood samples (different techniques)
6. Mastering different methods of drug administration to experimental animals (oral, IM, SC,)
7. Experience in tissue culture techniques: growing and maintenance of cells of different origin, stable and transient transfection

Instrumentation, methodology and techniques

1. Whole animal experiments (Stereotaxic injections to rats)
2. Perfusion experiments (isolated perfused rat pancreas)
3. Immunocytochemistry, Confocal and fluorescence microscopy
4. Gamma counters, liquid scintillation counters
5. Spectrophotometers
6. Cell harvesters
7. Centrifuges and ultracentrifuges
8. Radioligand binding assays (opioid receptors), radioimmunoassay
9. Tissue bath experiments (isolated tissues, frog's heart, rabbit intestine, guinea pig ileum)

Workshops attended

1. Principles of genetic engineering: 1-5 March, 1998, provided by University of Alexandria, Medical research center.
2. Powerpoint 2nd level 11-13 March **2006** , king AbdulAziz University, Jeddah, KSA.
3. How to effectively design your course , king AbdulAziz University .April **2006**
4. The implementation and assessment of outcome-based curricula, April **2006**, king AbdulAziz University, Jeddah, KSA.
5. Essentials of problem based learning: Facilitator training, curriculum design problem construction and student assessment, February **2007**, king AbdulAziz University, Jeddah, KSA.
6. Student's assessment 12-13 March **2007**, king AbdulAziz University, Jeddah, KSA.
7. Training program: Presentation skills and delivery November **2008**, king AbdulAziz University, Jeddah, KSA.
8. Work shop of successful implantation of the student activities
9. Workshop in SPSS held in center for teaching and learning development, KAU 5-7-9 March **2011**
10. Workshop in control effective meeting held in center for teaching and learning development, from 21 till 23 of March **2011**
11. Workshop in Science direct, Scopus, sage, gale held at the King Fahad Medical Research Center in December **2011**
12. Education by entertainment and simulation Center of teaching and learning development 21/2/2012
13. Attendance of Workshop: Assessment made easy conducted by Prof. Dr. Omya Abul Ella Hamed, chairman of the quality and academic accreditation unit, faculty of medicine , KAU, held in faculty of Pharmacy, Sunday 26 February **2012**.

14. Attendance of UP To Date : Demonstration and skills training workshop in September 29th, **2012**.
15. Attendance of Workshop; use of SPSS program in the analysis of questionnaires conducted by Prof. Dr. Omya Abul Ella Hamed, chairman of the quality and academic accreditation unit, faculty of medicine , KAU, held in faculty of Pharmacy, Sunday 30 September **2012**
16. Attendance of Workshop: Web Endnote as a reference management software, conducted by Dr. Mohammed Ahmad Hassanien, Assistant professor in the clinical biochemistry and medical education faculty of medicine , KAU, held in the central medical library, Tuesday 2 December **2012**
17. Attendance of Workshop: Item analysis interpretation, conducted by Prof. Dr. Omya Abul Ella Hamed, chairman of the quality and academic accreditation unit, faculty of medicine , KAU, held in faculty of medicine, Sunday 26 December **2012**
18. Attendance of Workshop: Teamwork: How to use it to improve our teaching experience at KAU held in center for teaching and learning development during 30/12/**2012**
19. Attendance of Workshop: iThenticate program for plagiarism, conducted by Dr. Mohammed Ahmad Hassanien, Assistant professor in the clinical biochemistry and medical education faculty of medicine , KAU, held in the central medical library, Tuesday 1 January **2013**
20. Attendance of Workshop: Correct concept of compiling course specifications in NCAAA template, 10-11 February **2013** held in king AbdulAziz University, Faculty of medicine
21. Attendance of Workshop: OSCE & OSPE, conducted by Prof. Dr. Omya Abul Ella Hamed, chairman of the quality and academic accreditation unit, faculty of medicine , KAU, held in faculty of medicine, Wed 17 February 2013
22. Attendance of Workshop: Implementation of the strategic plane of the Faculty of Pharmacy (**Part 1**): **Writing the** , 4 April **2013** held at the King Fahad Medical Research Center.
23. Attendance of Workshop: Implementation of the strategic plane of the Faculty of Pharmacy (**Part 2**): **Strategic goals** , 6 May **2013** held at the Faculty of Pharmacy, Building 5, 1st floor
24. Attendance of one day workshop on multiple mini interviews for student selection held in May 14, 2013. Building 9, Medical education center, 2nd floor
25. Attendance of Workshop: Exam Blueprint, conducted by Dr. Nasra Ayoub, faculty of medicine , KAU, held in faculty of medicine, Tuesday 26 November 2013
26. Attendance and participation at the nuclear pharmacy day that was held in king Abdulaziz University hospital on the 4th of December 2013
27. Attendance of workshop academic supervision
28. Workshop: Endnote, Center of teaching and learning development, King Abdulaziz University, 16-17/2/2014

29. Workshop: statistical methods using Megasat: Center of teaching and learning development, King Abdulaziz University, 15-16/4/2014
30. Workshop: Blackboard essential training-E-learning. Center of teaching and learning development, King Abdulaziz University, 28-29-30/4/2014
31. Attendance of Workshop: Classroom assessment techniques, Center of teaching and learning development, King Abdulaziz University 21-22/9/2014

Conferences attended

1. 18th Saudi Urological conference held in King AbdulAziz University, Jeddah, KSA from 20th-23rd February **2006**
2. Attendance of the KAU International oncology conference, held in king Faisal conference center, KAU 15-17 January **2013**
3. Second international symposium on controversies on electromagnetic field in medicine and biology, King Abdulaziz University hospital , 20/4/2014

Lectures attended

1. Attendance of the fourth academic research display November **2008**, king Abdulaziz University, Jeddah, KSA.
2. Attendance of the fifth academic research display November **2008**, king Abdulaziz University, Jeddah, KSA.
3. Presenting lectures during the 1st, 2nd and 3rd, 7th Continuing Pharmacy Education Program (CPE) , accredited by the Saudi Council for health specialties, SCHS organized by the Faculty of Pharmacy, king AbdulAziz University, Jeddah, KSA. at the King Fahad Medical Research Center (**2007-2009**)
4. The first Pharmacy carrier day held on 26th May, **2010** at the faculty of pharmacy, King Abdulaziz University, Jeddah, KSA
5. Attendance of the sixth academic research display November **2010**, king Abdulaziz University, Jeddah, KSA.
6. Attendance of the seventh academic research display November **2011**, king Abdulaziz University, Jeddah, KSA.
7. Attendance of lecture: How to prepare your ILO's and liaisons between assessment and course ILO's presented by Prof. Dr. Mohamed Moustafa, chairman of the quality and academic accreditation unit, faculty of pharmacy, KAU, Faculty of Pharmacy, Sunday 25 April **2012**
8. Attendance of lecture: How to prepare your ILO's and liaisons between assessment and course ILO's presented by Prof. Dr. Mohamed Moustafa, chairman of the quality and academic accreditation unit, faculty of pharmacy, KAU, Faculty of Pharmacy, Sunday 25 April **2012**
9. Attendance of the eighth academic research display 19 December **2012**, king Abdulaziz University, Jeddah, KSA

10. Attendance of a lecture on (Packaging Web2.0 Apps for blended learning experience in 17 April 2013, Female section

Committees participation

1. Member of the Pharm D. graduation project committee in the faculty of pharmacy, king Abdulaziz University, Jeddah, KSA (2007-till now).
2. Member of the accreditation committee" the academic program" in the faculty of pharmacy, king Abdulaziz University, Jeddah, KSA (2011-till now).
3. Member of the higher education and research committee in the faculty of pharmacy, king Abdulaziz University, Jeddah, KSA (2011-till now)
4. Leader of the religious committee, in the faculty of pharmacy, king Abdulaziz University, Jeddah, KSA (2008-2010).

Memberships

1. Reviewer for scientific research projects, *King Saud University*, Riyadh, Saudi Arabia.
2. Membership of American Association for the Advancement of Science (AAAS)
3. Membership of the Egyptian Society of Pharmacology and Experimental Therapeutics
4. Membership of the Egyptian Society of Toxicology
5. Membership of the Egyptian Pharmaceutical Society

Supervision of dissertations and projects

I. Dissertations

1. "Involvement of excitatory neurotransmitters in morphine dependence in rats" Dept. of Pharmacology, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt . (Master)
2. " Adverse effects of cyclosporine in rats" Dept. of Pharmacology, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt . (Ph.D.)
3. " Role of potassium channel modulators in morphine-induced analgesia in rats" Dept. of Pharmacology, Faculty of Pharmacy, Beirut Arab University, Beirut, Lebanon . (Master)

II. PharmD. Graduation projects to the 6th year pharmacy students in the Faculty of Pharmacy, King AbdulAziz University, Jeddah, Saudi Arabia.

1. The role of clinical pharmacist in promoting drug addiction treatment, 2007-2008
2. Neuropathic pain: New strategies and guidelines, 2008-2009
3. Understanding geriatrics for better outcome: role of clinical pharmacist, 2009-2010
4. Influence of gender on opioid mediated analgesia 2012-2013
5. A Pharmaceutical Study on Extemporaneous Oral Dosage Form for Pediatrics 2012-2013
6. An online survey on patient-pharmacist relationship in Jeddah. Is it time to establish the pharmacy data bank? 2014-2015

Publications

1. **Iman Ibrahim Soliman, Elham Afify, Gaddah Al Shobragi** (2014) Evaluation of Extemporaneous Pediatric Gabapentin Suspension Prepared From Gabapentin Capsules. *Lat. Am. J. Pharm.* **33** (5): 746-52 (2014)
2. **Elham A. Afify**, Mohamed M. Khedr , Amal G. Omar , Suzanne A. Nasser (2013) The involvement of K ATP channels in morphine-induced antinociception and hepatic oxidative stress in acute and inflammatory pain in rats. *Fundam clin Pharmacol* **27** (2013) 623–631. doi: 10.1111/fcp.12004. [Epub ahead of print]
3. Amal G. Omar, **Elham A. Afify**, Fouad M. Sharabi and Mahmoud M El-Din (2007): Cyclosporine- verapamil interactions in rats. *Bull. Alex. Fac. Med. MI:* 863-871.
4. Bichoy H. Gabra, **Elham A. Afify**, Tahia T. Dabbees, and Mohamed S. Abou Zeit Har (2005). Role of NO/NMDA pathways in the development of morphine withdrawal induced by naloxone in vitro. *Pharmacol. Res.* **51**: 319-327.
5. Mahmoud M. El-Mas, **Elham A. Afify**, Amal G. Omar, Mahmoud M. Mohy El-Din and Fouad M. Sharabi (2003): Testosterone replacement reverses cyclosporine-induced chronic impairment of acetylcholine renovascular relaxations. *Eur. J. Pharmacol.* **468** : 217-224.
6. **Elham A. Afify** (2002). Turnover of μ -opioid receptors in neuroblastoma cells. *Mol. Brain. Res.* **106**: 83-87.

7. Mahmoud M. El-Mas, **Elham A. Afify**, Amal G. Omar and Fouad M. Sharabi (2002). Cyclosporine attenuates autonomic modulation of reflex chronotropic responses in conscious rats. *Can. J. Physiol. Pharmacol.* 80: 766-776
8. Mahmoud M. El-Mas, **Elham A. Afify**, Amal G. Omar and Fouad M. Sharabi (2002). Cyclosporine adversely, affects baroreflexes via inhibition of testosterone modulation of cardiac vagal control. *J. Pharmacol. Exp. Ther.* 301:346-354.
9. **Elham A. Afify**, Tahia T. Dabbees, Bichoy H. Gabra and Mohamed S. Abou Zeit Har (2001). Role of nitric oxide in catalepsy and hyperthermia in morphine-dependent rats. *Pharmacol. Res.* 44: 533-539.
10. Mahmoud M. El-Mas, **Elham A. Afify**, Mahmoud M. Mohy El-Din, Amal G. Omar and Fouad M. Sharabi (2001). Testosterone facilitates the baroreceptor control of reflex bradycardia: role of cardiac sympathetic and parasympathetic components. *J. Cardiovas. Pharmacol.* 38: 754-763.
11. **Elham A. Afify**, Ping Y-Law and Horace H. Loh (2001) The carboxyl terminus modulates desensitization of μ -opioid receptor in neuroblastoma (N2A) cells: role of G-proteins in coupling mechanism. *J. Egypt. Soc. Pharmacol. Exp. Ther.* 20: 129-145.
12. **Elham A. Afify**, Ping Y-Law and Horace H. Loh (2001): Down regulation of m- and d-opioid receptors in different cell models: comparative study. *J. Egypt. Soc. Pharmacol. Exp. Ther.* 20: 146-171.
13. **Elham A. Afify**, Maureen Riedl, Robert Elde, Ping Y-Law and Horace H. Loh (1998) The role of carboxyl terminus of μ and δ -opioid receptor in agonist induced downregulation. *Mol. Brain. Res.* 54: 24-34
14. Fathy K. El-Fiky, Mohamed A. Abou Karam and **Elham A. Afify** (1996) Effect of *Luffa aegyptiaca* (seeds) and *Carissa edulis* (leaves) on blood glucose level of normal and streptozotocin diabetic rats. *J. Ethnopharmacol.* 50: 43-47.
15. Mahmoud M. El-Din, Rashida Zeitoun, Hosny F. Mohamed, Mohamed, M. Abdel-Samed and **Elham A. Afify** (1994) Potentiation of the stimulatory action of theophylline on insulin secretion by intracellular calcium antagonist. TMB-8. *Alex. J. Pharm. Sci.* 9: 61-63
- 16; Mahmoud M. El-Din, Rashida Zeitoun, Hosny F. Mohamed, Mohamed, M. Abdel-Samed and **Elham A. Afify** (1994). Effect of amiloride on basal and glucose-

stimulated insulin secretion in rats: In-vitro and In-vivo study. *Bull. Alex. Fac. Med. XXX: 1333-1343.*

17. Rashida Zeitoun, Mahmoud M. El-Din Hosny F. Mohamed, Mohamed, M. Abdel-Samed and **Elham A. Afify** (1994). Effect of calcium entry blockers and an intracellular calcium antagonist on glucose tolerance and insulin secretion in rats. *Bull. Alex. Fac. Med. XXX: 633-640.*

18. Rashida Zeitoun, Mahmoud M. El-Din Hosny F. Mohamed, Mohamed, M. Abdel-Samed and **Elham A. Afify** (1993). The role of extracellular and intracellular calcium on glucose-stimulated insulin secretion from isolated perfused rat pancreas. *J. Med. Res. Institute 14: 83-101.*

Abstracts

1. Mohamed M. Khedr , Elham A. Afify, Amal G. Omar , Suzanne A. Nasser (2010) Differential role of K_{ATP} channel modulators on morphine-induced antinociception and oxidative stress in experimental models of acute and inflammatory pain. First international pharmaceutical conference " Recent advances in pharmaceutical research and technology (RAPPRT)" 6-7 May 2010.

2. Elham A. Afify, Maureen Riedl, Robert Elde, Ping Y-Law and Horace H. Loh The role of carboxyl terminus of μ and δ -opioid receptor in agonist induced downregulation. FAEB summer research conference: The role of neural plasticity in chronic drug abuse. Colorado, Copper mountain, USA. August 10-15. 1997. Abstract No. 2. *Mol. Brain. Res. 54: 24-34.*

3. Elham A. Afify, Ping Y-Law and Horace H. Loh. The carboxyl terminus modulates desensitization of μ -opioid receptor in neuroblastoma (N2A) cells: role of G-proteins in coupling mechanism. International Conference of Egyptian Society of Pharmacology (UASPHAR) and Arab Union of Pharmacology) AUPHAR) Cairo, Egypt. 3-6 December 1999 Abstract No. 25. *J. Egypt. Soc. Pharmacol. Exp. Ther. 20: 129-145.*

4. Mahmoud M. El-Din, Rashida Zeitoun, Hosny F. Mohamed, Mohamed, M. Abdel-Samed and Elham A. Afify: Isradipine-induced hyperglycemia in rats: involvement of sympathoadrenal system. Annual conference of Egyptian Society of Pharmacology and Experimental therapeutics. Cairo Egypt 1994, Abstract No. 8