

Curriculum Vitae

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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. Professor of Pharmacology, Department of Pharmacology, Faculty of Pharmacy, Alexandria University, Egypt (June 2018-)
2. Assistant Professor of Pharmacology, Department of Pharmacology, Faculty of Pharmacy, Alexandria University, Egypt (2015 –2018)
3. Associate professor of pharmacology and toxicology, Department of Pharmacology Faculty of Pharmacy, King Abdulaziz University, Saudi Arabia (2005-June 2015)
4. Coordinator of female section, Department of Pharmacology Faculty of Pharmacy, King Abdulaziz University, Saudi Arabia (2012-June 2014)
5. Assistant Professor of Pharmacology (September 2003-June 2005) Department of Pharmacology Faculty of Pharmacy, Beirut Arab University, Lebanon
6. Assistant Professor of Pharmacology (May 2003- September 2003) Department of Pharmacology, Faculty of Pharmacy, Alexandria University, Egypt
7. Lecturer of Pharmacology (Sept 1997-April 2003) Department of Pharmacology Faculty of Pharmacy, Alexandria University, Egypt.
8. Full-time Postdoctoral associate position (Sep 1995-Sept 1997) Department of Pharmacology, Medical School, University of Minnesota, USA
9. Assistant lecturer of Pharmacology (1990-1995) Department of Pharmacology Faculty of Pharmacy, Alexandria University, Egypt
10. 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: Participate in teaching of

1. Pharmacotherapy of respiratory diseases course: Fifth year Pharm D clinical program. Faculty of Pharmacy, University of Alexandria, Egypt 2024
2. Therapeutics V course: Fifth year Pharm D clinical program. Arab Academy for Science, Technology & Maritime Transport, College of Pharmacy 2024
3. Basic Pharmacology to undergraduate Pharmacy students, Faculty of Pharmacy, University of Alexandria, Egypt 2024
4. Basic Pharmacology to undergraduate Pharmacy students, Faculty of Pharmacy, Pharm D Clinical Program, Alexandria national university (ANU) 2024
5. Applied experimental pharmacology to postgraduate pharmacy students (Master) Faculty of Pharmacy, University of Alexandria, Egypt (2017-2018).
6. Biological standardization PME5, elective course to 4th and 5th years clinical pharmacy students Faculty of Pharmacy, University of Alexandria, Egypt (2016/2017-2017/2018).
7. Biological Screening & Standardization of Drugs and Biostatistics course to 4th year pharmacy students Faculty of Pharmacy, University of Alexandria, Egypt (2016/2017-2017/2018).
8. Therapeutic course to ph. D postgraduate pharmacy students Faculty of Pharmacy, University of Alexandria, Egypt (2015-2016)
9. Pharmacology courses to undergraduate Pharmacy students, Faculty of Pharmacy, University of Alexandria, Egypt (2015-2016)
10. Pharmacology1 courses to undergraduate Clinical Pharmacy students, Faculty of Pharmacy, University of Alexandria, Egypt (2016/2017-2017/2018)
11. Pharmacology (PHAD 302) Bridging program for dental assistant and dental hygienist. Faculty of dentistry, King Abdulaziz University, Saudi Arabia (2013-2014)
12. Biostatistics course to postgraduate Pharmacy students, Faculty of Pharmacy, King Abdulaziz University, Saudi Arabia (2010 -2014)
13. Biostatistics course to postgraduate students, Faculty of Medicine, King Abdulaziz University, Saudi Arabia (2011-2012)
14. Pharmacology course to undergraduate Nursing students, College of King Saud Bin Abdulaziz university, Faculty of nursing.(2010)
15. Pharmacology, Toxicology, and biostatistics courses to undergraduate Pharmacy students, Faculty of Pharmacy, King Abdulaziz University, Saudi Arabia
16. Pharmacology courses to undergraduate Pharmacy students, Faculty of Pharmacy, Beirut Arab University, Lebanon
17. Biological assay courses to undergraduate Pharmacy students, Faculty of Pharmacy, Beirut Arab University, Lebanon
18. Biological quality control to undergraduate Pharmacy students, Faculty of Pharmacy, Beirut Arab University, Lebanon

19. Advanced course in Pharmacology to graduate Pharmacy students, Faculty of Pharmacy, Beirut Arab University, Lebanon
20. Biological assay courses to graduate Pharmacy students, Faculty of Pharmacy, Beirut Arab University, Lebanon
21. Special course in toxicology to graduate Pharmacy students, Faculty of Pharmacy, Beirut Arab University, Lebanon
22. Pharmacology courses to undergraduate Pharmacy students, Faculty of Pharmacy, University of Alexandria, Egypt
- 23- Biological screening courses to undergraduate Pharmacy students, Faculty of Pharmacy, University of Alexandria, Egypt
- 24- Pharmacology courses to graduate Pharmacy students, Faculty of Pharmacy, University of Alexandria, Egypt
- 25- Laboratory courses of Pharmacology, Biochemistry, Bioassay to undergraduate Pharmacy students, Faculty of Pharmacy, University of Alexandria, Egypt.
- 26- Therapeutics II: Faculty of Pharmacy, University of Alexandria, Egypt
- 27- Clinical Pharmacology: Faculty of Pharmacy, University of Alexandria, Egypt
- 28- Pharmacology and pharmacotherapeutics: Faculty of Pharmacy, University of Alexandria, Egypt

Skills

1. Stereotaxic injections in rat brain of rodents
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. Gamma counters, liquid scintillation counters
4. Spectrophotometers
5. Cell harvesters
6. Centrifuges and ultracentrifuges

7. Radioligand binding assays (opioid receptors), radioimmunoassay
8. 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, KAU.
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. Omyma 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: iThenicate 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. Omyma 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** mission and vision , 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, Medical education center, 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 that was held in king Abdulaziz University hospital on the 10th of December 2014
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
32. Attendance of workshop: Decision making and problem solving organized by Faculty and leadership development center (FLDC) 15th-16th March 2016.

33. Workshop: Teaching evaluation organized by Faculty and leadership development center (FLDC) July 24-26, 2007.
34. Workshop: How to Develop a Project Proposal (BS – 01) 8th Round – 11th – 13th of December 2017 – Alexandria.
35. Workshop: Assessment: The real driver for competency-based education in pharmacy. Faculty of Pharmacy, Alexandria University, 18/7/2018.
36. Workshop on Responsible conduct of research on 12-13/8/2018. Awarded by Responsible Conduct of Research Program At Jordan University of Science and Technology-Jordan and University of California San Diego-USA. Held in the Faculty of Pharmacy, Alexandria University, Egypt.
37. Workshop on Quality assurance in different countries at Faculty of nursing 2020
38. Workshop on MLS online training Alexandria university 2020.
39. Online workshop: Sustainability on campuses: on and off the curriculum, online one hour workshop held in the period 3 April-28, 2022.
40. Online workshop: Virtual lab: Advancing science education globally online one hour workshop held in the period 3 April-25, 2022.

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
4. Bio Vision Alexandria 2016, in Biblothica Alexandrina, 12-14 April 2016
5. Basic techniques of molecular biology, held in Alexandria Faculty of medicine, 14th May, 2016, conference equivalent to 4CME credit hours.
6. 56th Annual Conference of the Egyptian society of pharmacology and experimental therapeutics (ESPET) & Workshop on Behavioural pharmacology held at the British University in Egypt (BUE) at El-Shorooq City on January, 28th 2017.
7. International conference on pharmaceutical and healthcare sciences PHS 6-7 November, 2019.
8. 2nd PUA international conference " multidisciplinary approaches in pharmaceutical sciences, 11th-12th March 2020 at Pharos University in Alexandria, Egypt.
9. Second International conference and Exhibition on pharmaceutical and healthcare sciences PHS2022. November 23 and 24, 2022.

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 the eighth academic research display 19 December **2012**, king Abdulaziz University, Jeddah, KSA.
9. 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 (2007-2015).
2. Member of the accreditation committee" the academic program" in the faculty of pharmacy, king Abdulaziz University, Jeddah, KSA (2011-2015).
3. Member of the higher education and research committee in the faculty of pharmacy, king Abdulaziz University, Jeddah, KSA (2011-2015)
4. Leader of the religious committee, in the faculty of pharmacy, king Abdulaziz University, Jeddah, KSA (2008-2010).
5. Member of the accreditation committee in the faculty of pharmacy, Alexandria University, Alexandria, Egypt.
6. Member of Promotion Committee (Pharmacology and clinical pharmacy)

Memberships

1. Membership of the Egyptian Society of Pharmacology and Experimental Therapeutics
2. Membership of the Egyptian Society of Toxicology
3. Membership of the Egyptian Pharmaceutical Society

Reviewer of papers submitted to

1. Reviewer for scientific research projects, *King Saud University*, Riyadh, Saudi Arabia.
2. Bio Vision Alexandria 2016, in *Bibliothica Alexandrina*, 12-14 April 2016
3. *Journal of Diabetes and Endocrinology*
4. *European Journal of Drug Metabolism and Pharmacokinetics*

Evaluation

1. Member of the evaluation committee of Projects proposals submitted to The VT knowledge Works Global Partnership 2015-2016, 2016-2017.
2. Member of the evaluation committee Academic Thesis Research Fund (ATRF) Faculty of Pharmacy, Alexandria University
3. Poster evaluation committee in the 2nd PUA international conference " multidisciplinary approaches in pharmaceutical sciences, 11th-12th March 2020 at Pharos University in Alexandria, Egypt

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.). defense date 2002.
3. " Role of potassium channel modulators in morphine-induced analgesia in rats" Dept. of Pharmacology, Faculty of Pharmacy, Beirut Arab University, Beirut, Lebanon . (Master). defense date: 4/7/2007:
4. Evaluation of the combined antitumor effect of pioglitazone and the tyrosine kinase inhibitor dactolisib in experimental model of hepatocellular carcinoma (Master) defense date August 2022.
5. Role of ion channels in modulation of morphine antinociceptive effect in experimental liver fibrosis. Dept. of Pharmacology, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt, (Master), defense date 26/6/2023.
6. Effect of potassium channels modulators on transient receptor potential vanilloid 1 in experimental neuropathic pain in rats. Dept. of Pharmacology, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt, (Master), defense date 6/4/2025.

7. Effect of combined therapy with rosuvastatin and memantin on TGB B1/Smad signaling pathway in experimental model of Alzheimer's disease in rats. Department of Pharmacology and Therapeutics, Faculty of Pharmacy and Drug Manufacturing, Pharos University in Alexandria (Master) (Defense date 9/3/2022).
8. Potential anti-inflammatory and antinociceptive effects of hypoglycemic agents in high fat diet-induced diabetic neuropathy in rats. Department of Pharmacology and Therapeutics, Faculty of Pharmacy, Beirut Arab University, Beirut, Lebanon, (Master), In-progress.
9. Effect of morphine on inflammation and cognitive deficits induced by sepsis in rats. Dept. of Pharmacology, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt, (Master), defense date 4/2/2023.
10. Effect of Empagliflozin on Neuropilin-1 Signaling Pathway in Experimental Liver Fibrosis. Department of Pharmacology and Therapeutics, Faculty of Pharmacy and Drug Manufacturing, Pharos University in Alexandria (Master), defense date 25/12/2022.
11. Effect of Dapagliflozin on TGF- β Signaling Pathway in Experimental Neuropathic Pain in Rats. Department of Pharmacology and Therapeutics, Faculty of Pharmacy, Beirut Arab University, Beirut, Lebanon, (Master), In progress.
12. Modulatory role of empagliflozin on cisplatin induced nephrotoxicity in rats. Dept. of Pharmacology, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt (PhD in progress).
13. Investigation of the Neuromodulatory Effect of Valsartan on Experimentally-Induced Parkinson's Disease in Rats. Dept. of Pharmacology, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt, (Master in progress).

Research projects

1. Principle investigator of the grant number 166-374-D1435 supported by the Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah.
2. Principle investigator of the grant supported by the Academic Thesis Research Fund (ATRF), Faculty of Pharmacy, Alexandria University, Alexandria, Egypt.

II. PharmD. Graduation projects of 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. Effect of nicotine on morphine antinociception in mice, 2012-2013.
7. An online survey on patient-pharmacist relationship in Jeddah. Is it time to establish the pharmacy data bank? 2014-2015

Publications

1. Badr RM, Abuissa SA, Elblehi SS, Hassan NW, **Afify EA**. The Antinociceptive Effect of Nicorandil in Neuropathic and Nociceptive Pain is Partially Mediated via TRPV1/Opioidergic Signaling. *Mol Neurobiol*. 2025 Jun 20. doi: 10.1007/s12035-025-05136-5. Epub ahead of print. PMID: 40540176.
2. Zidan EF, El-Mezayen NS, Elrewini SH, **Afify EA**, Ali MA. Memantine/Rosuvastatin Therapy Abrogates Cognitive and Hippocampal Injury in an Experimental Model of Alzheimer's Disease in Rats: Role of TGF- β 1/Smad Signaling Pathway and Amyloid- β Clearance. *J Neuroimmune Pharmacol*. 2024 Dec 21;20(1):4. doi: 10.1007/s11481-024-10159-1. PMID: 39708240; PMCID: PMC11663181.
3. Ashraf A. Noah, Nesrine El-Mezayen, Samar O. El-Ganainy, Inas E. Darwish and **Elham A Afify** (2023) Reversal of fibrosis and portal hypertension by Empagliflozin treatment of CCl4-induced liver fibrosis: emphasis on Gal-1/NRP-1/TGF- β and Gal-1/NRP-1/VEGFR2 pathways. *Eur. J. Pharmacol. Volume 959, 15 November 2023, 176066*
4. Asser F Bedair, Ahmed Wahid, Nesrine S El-Mezayen, Amira F El-Yazbi, Hadeel A Khalil, Nayera W Hassan, **Elham A Afify** (2023) Nicorandil/morphine crosstalk accounts for antinociception and hepatoprotection in hepatic fibrosis in rats: Distinct roles of opioid/cGMP and NO/KATP pathways. *Biomedicine & Pharmacotherapy*, volume 165, 115068.
5. AF Bedair, A Wahid, NS El-Mezayen, **EA Afify** (2023) Nicorandil reduces morphine withdrawal symptoms, potentiates morphine antinociception, and ameliorates liver fibrosis in rats, *Life Sciences* 319, 121522.
6. Mennatallah A Gowayed, Norhan S El-Sayed, Noura A Matar, **Elham A Afify**, Samar O El-Ganainy (2022) The $\alpha 7$ nAChR allosteric modulator PNU-120596 amends neuroinflammatory and motor consequences of parkinsonism in rats: Role of JAK2/NF- κ B/GSk3 β /TNF- α pathway. *Biomedicine & Pharmacotherapy* Volume 148, April 2022, 112776
7. SA Nasser, **EA Afify**, F Kobeissy, B Hamam, AH Eid, MM El-Mas (2021) Inflammatory basis of atherosclerosis: Modulation by sex hormones *Current Pharmaceutical Design* 27 (18), 2099-2111
8. Elgayed SH, **Afify EA** Amin HA and Abdellatif AAH (2021) Estrogenic Effect of *Salvia officinalis* Extract on Reproductive Function of Female Mice and Identification

of Its Phenolic Content. *Combinatorial Chemistry & High Throughput Screening*, 01 Jan 2021, 24(10):1654-1663. DOI: 10.2174/1386207323666200811095527 PMID: 32781955

9. Nasser SA, **Afify EA** (2019) Sex differences in pain and opioid mediated Life Sci. 2019 Oct 12:116926. .antinociception: Modulatory role of gonadal hormones doi: 10.1016/j.lfs.2019.116926. [Epub ahead of print] Review.

10. **Elham A. Afify**, and Najlaa M. Andijani (2017) Potentiation of morphine-induced antinociception by propranolol: the involvement of dopamine and GABA systems. *Front. Pharmacol.* November 2017 |Volume 8| Article 794 | doi: 10.3389/fphar.2017.00794.

11. Mahmoud A. Ragab, Heba A. Abd El Razik , **Elham A. Afify**, Khadiga A. Ismail, Mounir A. Khalil and Nargues S. Habib (2017) Design, synthesis, estrogenic and antiestrogenic activities of some triarylpyrazole derivatives. *Med Chem Res* volume 26 (11): 2785-2808. DOI 10.1007/s00044-017-1977-8

12. **Elham A. Afify**, Huda M. Alkreathy, Ahmed M. Ali, Hassan A. Alfaifi and Lateef M. Khan (2017) Characterization of the Antinociceptive Mechanisms of Khat Extract (*Catha edulis*) in Mice. *Frontiers in Neurology*, | Volume 8 | Article 69, doi: 10.3389/fneur.2017.

13. 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

14. **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]

15. Amal G. Omar, **Elham A. Afify**, Fouad M. Sharabi and Mahmoud M El-Din (2007): Renal functional & histomorphological Evaluation of cyclosporin A-verapamil interaction in male rats. *Bull. Alex. Fac. Med. MI*: 863-871.

16. 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.

17. 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.

18. **Elham A. Afify** (2002). Turnover of μ -opioid receptors in neuroblastoma cells. *Mol. Brain. Res.* **106**: 83-87.

19. 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
20. 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.
21. **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.
22. 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.
23. **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.
24. **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.
25. **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
26. 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.
27. 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
28. 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.
29. 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.

30. 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 and oral presentations

1. AF Bedair, A Wahid, NS El-Mezayen, **EA Afify** (2022) Nicorandil reduces morphine withdrawal symptoms, potentiates morphine antinociception, and ameliorates liver fibrosis in rats. Poster presentation in Second International conference and Exhibition on pharmaceutical and healthcare sciences PHS2022. November 23 and 24, 2022

3. Mennatallah A Gowayed, Norhan S El-Sayed, Noura A Matar, **Elham A Afify**, Samar O El-Ganainy (2022) The $\alpha 7$ nAChR allosteric modulator PNU-120596 amends neuroinflammatory and motor consequences of parkinsonism in rats: Role of JAK2/NF- κ B/GSk3 β /TNF- α pathway. Poster presentation in Second International conference and Exhibition on pharmaceutical and healthcare sciences PHS2022, November 23 and 24, 2022.

3. Salwa A. Abuiessa, Evans O. Ayieng, Samar S. Elblehi, Sahar M. El-Gowilly, Elham A. Afify, Mahmoud M. El-Mas (2022). Morphine Aggravates Inflammatory, Behavioral, and Hippocampal Structural Deficits in Septic Rats; Experimental biology 2022, abstract confirmation of poster presentation – ASPET/Pharmacology, Pennsylvania Convention Center, Philadelphia, Pennsylvania, USA, April 2-5, 2022.

4. Salwa A. Abuiessa, Evans O. Ayieng, Samar S. Elblehi, Sahar M. El-Gowilly, Elham A. Afify, Mahmoud M. El-Mas (2022). Upregulation of Hippocampal MAPKERK/NF κ B Signaling Accounts for the Opioid Receptor-dependent Incitement of Cognitive Impairment in Septic Rats. Experimental biology 2022, abstract confirmation of poster presentation ASPET/Pharmacology, Pennsylvania Convention Center, Philadelphia, Pennsylvania, USA, April 2-5, 2022.

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