

Faculty CV Template

Elshaimaa A. Arafa

Academic Rank

2022- present	Professor Department of Clinical Sciences, College of Pharmacy and Health Sciences, Ajman University, Ajman, UAE.
2016– 2021	Associate Professor Department of Clinical Sciences, College of Pharmacy and Health Sciences, Ajman University, Ajman, UAE.
2021- present	Professor (on-leave) Department of Pharmacology and Toxicology, Faculty of Pharmacy, Beni-Suef University, Egypt
2015– 2020	Associate Professor (on-leave) Department of Pharmacology and Toxicology, Faculty of Pharmacy, Beni-Suef University, Egypt
2014– 2016	Assistant Professor Department of Pharmacology and Toxicology, College of Pharmacy and Health Sciences, Ajman University of Science and Technology, Ajman, UAE.
2012– 2013	Assistant Professor Department of Pharmacology and Toxicology, Faculty of Pharmacy, Taif University, Taif, KSA
2009 – 2014	Assistant Professor Department of Pharmacology and Toxicology, Faculty of Pharmacy, Beni-Suef University, Egypt.
2005 – 2008	Assistant Lecturer Department of Pharmacology and Toxicology at Cairo University, Faculty of Pharmacy, Beni-Suef campus, Egypt
1999 – 2005	Instructor and teaching assistant Department of Pharmacology & Toxicology, Faculty of Pharmacy, Cairo University, Beni-Suef campus, Egypt.

Qualifications

2009	Foreign Pharmacy Graduate Equivalency Certificate, FPGEC, USA The FPGEC Certification Program evaluates the qualifications of foreign pharmacy graduates in accordance with USA standards for pharmacy education.
2005-2009	Ph.D, Cairo University & The Ohio State University Ph.D degree in Pharmacology, Cairo Univ., Cairo, Egypt and The Ohio State University,

	Columbus, OH, USA (Sponsored by the scholar exchange program of the Egyptian Ministry of Higher Education). Title: "Molecular Mechanisms of Modulatory effects of Naturally Occurring Compounds on the Efficacy of Cancer Therapy".
1999-2005	M.Sc., Cairo University, Faculty of Pharmacy Master degree of pharmaceutical sciences, Pharmacology and Toxicology. Title: "Comparative evaluation of the effectiveness of certain gastropathy-preventing drugs against experimentally-induced hyperacidity in animals".
1993-1998	B.Sc., Cairo University, Faculty of Pharmacy Bachelor degree of Pharmaceutical Sciences with a general grade of "Excellent With Honors", GPA 3.96 on 4.0 scale

Research field(s)

- Molecular mechanisms of natural anticancer drugs
- Molecular pharmacology as a basis for drugs development
- Oxidative stress implication in the pathophysiology of clinical disorders

Publications (Last five years)

1. Hussein R, **Arafa EA**, Abdel Raheem S, Mohamed W. Thymol protects against bleomycin-induced pulmonary fibrosis via abrogation of oxidative stress, inflammation, and modulation of miR-29a/TGF- β and PI3K/Akt signaling in mice. *Life Sci.* 2022 Dec 20;314:121256.
2. Arab H, Abd El Aal H, Alsufyani S, El-Sheikh A, **Arafa EA**, Ashour A, Kabel A, Eid A. Topiramate Reprofile for the Attenuation of Cadmium-Induced Testicular Impairment in Rats: Role of NLRP3 Inflammasome and AMPK/mTOR-Linked Autophagy. *Pharmaceuticals (Basel)*. 2022 Nov 14;15(11):1402.
3. Raza A, Chohan T, Buabeid M, **Arafa EA**, Chohan T, Fatima B, Sultana K, Saad Ullah M, Murtaza G. Deep learning in drug discovery: a futuristic modality to materialize the large datasets for cheminformatics. *J Biomol Struct Dyn*. 2022 Oct 28;1-16.
4. Arab H, Eid A, El-Sheikh A, **Arafa EA**, Ashour A. Irbesartan reprofiling for the amelioration of ethanol-induced gastric mucosal injury in rats: Role of inflammation, apoptosis, and autophagy. *Life Sci.* 2022 Nov 1;308:120939.
5. Buabeid M, Yaseen H, Asif M, Murtaza G, **Arafa EA**. Anti-Inflammatory and Anti-Angiogenic Attributes of Moringa olifera Lam. and its Nanoclay-Based Pectin-Serican films. *Front Pharmacol*. 2022 Aug 25;13:890938.
6. Arab H, Elhemiely A, El-Sheikh A, Al Khabbaz H, **Arafa EA**, Ashour A, Kabel A, Eid A. Repositioning Linagliptin for the Mitigation of Cadmium-Induced Testicular Dysfunction in Rats: Targeting HMGB1/TLR4/NLRP3 Axis and Autophagy. *Pharmaceuticals (Basel)*. 2022 Jul 11;15(7):852.
7. Buabeid M, **Arafa EA**, Yaseen H, Umar M, Murtaza G. Anti-inflammatory effect of simvastatin by impeding TNF- α and interleukin-1 β pathways: antiangiogenic activity of simvastatin and simvastatin-loaded silver nanoparticles. *Artif Cells Nanomed Biotechnol*. 2022 Dec;50(1):208-217.
8. Ahmed L, Sayed R, Mohamed W, **Arafa EA**. Editorial: Safety of Polyphenolic Compounds and Their Role in Cardiovascular Diseases. *Front Cardiovasc Med*. 2022 Jun 24;9:940967.
9. Arab HH, Ashour AM, Eid AH, **Arafa EA**, Al Khabbaz HJ, Abd El-Aal SA. Targeting oxidative stress, apoptosis, and autophagy by galangin mitigates cadmium-induced renal damage: Role of SIRT1/Nrf2 and AMPK/mTOR pathways. *Life Sci.* 2022 Jan 6:120300.

10. Arab HH, Abd El-Aal SA, Eid AH, **Arafa EA**, Mahmoud AM, Ashour AM. Targeting inflammation, autophagy, and apoptosis by troxerutin attenuates methotrexate-induced renal injury in rats. *Int Immunopharmacol.* 2021 Dec 23;103:108284.
11. **Arafa ESA**, Refaey MS, Abd El-Ghafar OAM, Hassanein EHM, Sayed AM. The promising therapeutic potentials of ginsenosides mediated through p38 MAPK signaling inhibition. *Heliyon* Nov. 2021, 7(11).
12. Umar MI, Hassan W, Murtaza G, Buabeid M, **Arafa ESA**, Irfan HM, Asmawi MZ, Huang X. The Adipokine Component in the Molecular Regulation of Cancer Cell Survival, Proliferation and Metastasis. *Pathology and Oncology Research* Sep 2021. 13;27:1609828.
13. Arab HH, Ashour AM, Alqarni M, **Arafa ESA**, Kabel AM. Camel Milk Mitigates Cyclosporine-Induced Renal Damage in Rats: Targeting p38/ERK/JNK MAPKs, NF- κ B, and Matrix Metalloproteinases. *Biology* 2021, 10(5), 442.
14. **Arafa ESA**, Shurrab NT, Buabeid MA. Therapeutic Implications of a Polymethoxylated Flavone, Tangeretin, in the Management of Cancer via Modulation of Different Molecular Pathways. *Adv Pharmacol Pharm Sci.* 2021 Mar 5; 2021:4709818.
15. Iqbal Z, **Arafa ESA**, Kanwal Z, Murtaza G. Smart solution of severe problems: Radiolabeled nanocarriers for cancer imaging and therapy. *Journal of Drug Delivery Science and Technology.* November 2020.
16. Buabeid M, **Arafa ESA**, Hassan W, Murtaza G. In Silico Prediction of the Mode of Action of Viola odorata in Diabetes. *BioMed Research International.* October 2020.
17. **Arafa ESA**, Hassan W, Murtaza G, Buabeid M. Ficus carica and Szigium cumini Regulate Glucose and Lipid Parameters in High-Fat Diet and Streptozocin-Induced Rats. *Journal of Diabetes Research.* October 2020.
18. Hassan W, Buabeid M, Umme Kalsoom, Bakht S, Akhtar I, Iqbal F, **Arafa ESA**. Cuscuta reflexa Roxb. Expedites the Healing Process in Contact Frostbite. *BioMed Research International.* October 2020.
19. Xie J, Guo J, Kanwal Z, Wu M, Lv X, Ibrahim NA, Li P, Buabeid MA, **Arafa ESA** and Sun Q. Calcitonin and Bone Physiology: In Vitro, In Vivo, and Clinical Investigations. *International Journal of Endocrinology.* September 2020.
20. **Arafa ESA**, Buabeid, MA., Hassan W, Murtaza, G, Chohan TA, Ahmed H. Protective Effects of Cocos Nucifera Oil in Paraphenylene Diamine Toxicity. *Curr Pharm Biotechnol.* 2020 Apr 30.
21. **Arafa ESA**, Mohamed WR, Zaher DM, Omar HA. Glizalide attenuates acetic acid-induced colitis via the modulation of PPAR γ , NF- κ B and MAPK signaling pathways. *Toxicology and Applied Pharmacology.* February 2020, 114919.
22. Shurrab NT, **Arafa ESA**. Metformin: A Review of its Therapeutic Efficacy and Adverse Effects. *Obesity Medicine.*
23. Buabeid MA, **Arafa ESA**, Murtaza G. Emerging Prospects for Nanoparticle-Enabled Cancer Immunotherapy. *Journal of Immunology Research* 2020.
24. Rehman K, Munawar SM, Akash MSH, Buabeid MA, Chohan TA, Tariq M, Jabeen K, **Arafa EA**. Hesperidin improves insulin resistance via down-regulation of inflammatory responses: Biochemical analysis and in silico validation. *PLoS One.* 2020 Jan 13;15(1).
25. Bahr HI, Abdelghany AA, Galhom RA, Barakat BM, **Arafa EA**, Fawzy MS. Duloxetine protects against experimental diabetic retinopathy in mice through retinal GFAP downregulation and modulation of neurotrophic factors. *Exp Eye Res.* 2019 Jul 22;186:107742.
26. Omar HA, El-Serafi AT, Hersi F, **Arafa EA**, Zaher DM, Madkour M, Arab HH, Tolba MF. Immunomodulatory MicroRNAs in cancer: targeting immune checkpoints and the tumor microenvironment. *FEBS J.* 2019 Jul 15.
27. Khawaja AH., Qassim S, Hassan NA, **Arafa, E-SA**. Added sugar: Nutritional knowledge and consumption pattern of a principal driver of obesity and diabetes among undergraduates in UAE. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews.* 2019 July–August 13 (4): 2579-84.

28. Shah A, Ali Buabeid M, **Arafa EA**, Hussain I, Li L, Murtaza G. The wound healing and antibacterial potential of triple-component nanocomposite (chitosan-silver-sericin) films loaded with moxifloxacin. Int J Pharm. 2019 Apr 16.
29. Wu WD, Chen PS, Omar HA, **Arafa EA**, Pan HW, Jeng J, Hung JH. Antrodia cinnamomea boosts the anti-tumor activity of sorafenib in xenograft models of human hepatocellular carcinoma. Sci Rep. 2018 Aug 27;8(1):12914.
30. Abdin SM, Zaher DM, **Arafa EA**, Omar HA. Tackling Cancer Resistance by Immunotherapy: Updated Clinical Impact and Safety of PD-1/PD-L1 Inhibitors. Cancers (Basel). 2018 Jan 25;10(2).

Courses Taught (Last five years)

- Pharmacology and Therapeutics I
- Pharmacology and Therapeutics II
- Pharmacology and Therapeutics III
- Drug Screening and Bioassay
- Toxicology and Chemotherapeutic Drugs
- Drug Abuse
- Pharmaceutical Legislations
- Pharmacology I/Dentistry
- Pharmacology II/Dentistry

Professional Experience

Member in:

- American Association for Cancer Research (AACR)
- The Egyptian Association of Pharmacists
- MEMBS – Middle East Molecular Biology Sources
- ASPET- American Society for Pharmacology and Experimental Therapeutics

Committees Work

- Member and then head of the College Research Committee (2017 till now)
- Member then head of the Examination Committee (2018-till now)
- Member of the Council of Research (2018 till now)
- Member of the university Planning and Budgeting Committee (2022 till now)
- College of Pharmacy WASC coordinator
- Member of ACPE Steering Committee (2017-till now)
- Member of the Faculty Accountability Committee (2019-2021)
- The coordinator of the College Timetable for four years (2014-2018) including counseling of warned students
- Member of the ICPM-1 scientific committee (2017)
- Member of the ICPM-3 organizing committee (2019)
- The head of the university Research Ethics committee (2016-2018)

- Head and member of many ad-Hoc Committee in the College of Pharmacy and Health Sciences for
- conference participation
- Head of the Ad Hoc Committee of the College of Pharmacy AU Student Research Day 2020
- Head and member of many ad-Hoc Promotion Committees

Honors and Awards

- Best Student poster in the 5th UAE International Conference on Antimicrobial Resistance, 2022.
- Faculty Excellence in Research, Ajman University, 2018.
- Best Research Award, Beni-Suef University, Egypt, 2017.
- Best Pharmacy Student Thematic Poster from DUPHAT, held in Dubai, UAE, 2017.
- Beni-Suef university incentive award, Egypt, 2016.
- Best PhD thesis (supervision), Beni-Suef University, Egypt, 2016.
- Best Professional Poster and Presentation from DUPHAT, held in Dubai, UAE, 2016.
- Best Pharmacy Student Poster Design from DUPHAT, held in Dubai, UAE, 2016.
- BioVision. Nxt fellowships award to attend BioVision, 7th edition of the international Life Sciences Forum, held in Lyon, France, 2012.

Other Contributions and Achievements

- Reviewer in many scientific journals [Link](#)
- Associate Editor of the journal of "International Journal of Clinical Pharmacology and Pharmacotherapy"
- Judge in many scientific competitions and university grants