



e.arafa@ajman.ac.ae

Mobile: +971527211678

Website: www.researchgate.net/profile/El-Shaimaa_Arafa/
<https://www.ajman.ac.ae/en/pharmacy/directory/staff/elshaimaa-abdelvazek-ahmed-arafa>

El-Shaimaa A. Arafa, Ph.D

PERSONAL DATA

Nationality **Egyptian**
Contact address **H3, Bayrouni housing, University of Sharjah, Sharjah, UAE**

EDUCATION

2009 – 2011 Postdoctoral Research Associate

The Ohio State University, Department of Radiology, Division of Radiobiology, Columbus, Ohio, USA

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 Univ., 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".

1998 – 2000 Pre-Master Courses, Cairo University, Faculty of Pharmacy

Successfully completed the general Pre-Master courses (Statistics, Computer Sciences, and English Language) and special courses of Pharmacology and Toxicology department (Pathophysiology, Immunopharmacology, Bioassay, Toxicometrics) with a general grade of "Very Good"

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

WORK & RESEARCH EXPERIENCE

2021– Present 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.

- 2016– 2021 Associate Professor**, Department of Clinical Sciences, College of Pharmacy and Health Sciences, Ajman University, Ajman, UAE.
- 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.
- 2006 – 2008 Visiting Scholar**, The Ohio State University, Columbus, Ohio, USA, under the scholar exchange program of the Egyptian Ministry of Higher Education to obtain the PhD
- 2005 – 2006 Assistant Lecturer**, Department of Pharmacology and Toxicology at Cairo University, Faculty of Pharmacy, Beni-Suef campus, Egypt
- 1999 – 2005 Instructor and teaching assistant of Pharmacology & Toxicology**, Faculty of Pharmacy, Cairo University, Beni-Suef campus, Egypt.

TEACHING EXPERIENCE

Participated in teaching the following classes organized by the Pharmacology and Toxicology Department For:

Graduate pharmacy students:

- Clinical Pharmacology
- Pathophysiology
- Pharmacometrics
- Toxicometrics
- Experimental Pharmacology
- Drug Abuse
- Pharmacology and natural products

Undergraduate Pharmacy Students:

- Basic pharmacology
- Principles and Practice of Toxicology
- Chemotherapy
- Drug Interactions
- Therapeutics
- Clinical Pharmacology
- Bioassay and Drug Screening
- First Aid
- Pharmaceutical Legislations
- Medical Terminology

SKILLS & ACTIVITIES

Research Skills	Cancer Biology, Cell Signaling, Cancer Chemoprevention, Translational Cancer Research, Clinical Toxicology, Cell Culture, Western blot, PCR, Electrophoresis, Gene Expression, Apoptosis, Molecular Mechanisms of Pharmacological Action, In Vitro Pharmacology, Clinical Pharmacology, Medicinal Plants and Herbs.
Languages	Arabic (native) English (fluent) French (fluent)
Scientific Memberships	American Association for Cancer Research (AACR) The General Syndicate of Pharmacists in Egypt The Egyptian Association of Pharmacists MEMBS – Middle East Molecular Biology Sources ASPET- American Society for Pharmacology and Experimental Therapeutics
Interests	Molecular mechanisms of natural anticancer drugs Molecular pharmacology as a basis for drugs development Oxidative stress implication in the pathophysiology of clinical disorders

JOURNAL PUBLICATIONS

1. Abd Elmaaboud M. A., Kabel A.M., Borg H.M., Magdy A. A., Kabel S. M., **Arafa E.-S.A.**, Alsufyani S. E., Arab H.H. Omarigliptin/rosinidin combination ameliorates cyclophosphamide-induced lung toxicity in rats: The interaction between glucagon-like peptide-1, TXNIP/NLRP3 inflammasome signaling, and PI3K/Akt/FoxO1 axis. Biomedicine and Pharmacotherapy. Volume 177August 2024 Article number 117026.
2. **Arafa, E.-S.A.** Hassanein, E.H., Ibrahim, N.A., Buabeid, M.A., Mohamed, W.R. Involvement of Nrf2-PPAR- γ signaling in Coenzyme Q10 protecting effect against methotrexate-induced testicular oxidative damage. International immunopharmacology, 2024, 129, pp. 111566
3. Ibrahim, N.A., **Arafa E.-S.A.**, Buabeid M.A., Elmorshedy, K.E. Zinc's protective role against hydroxychloroquine-induced cardiac effects in adult male albino rats (2023) Saudi Journal of Biological Sciences, Volume 30, Issue 8August 2023.
4. Hussein R.M., **Arafa E.-S.A.**, Raheem S.A., Mohamed W.R. 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 (2023) Life Sciences, 314, art. no. 121256
5. Hassanein E.H.M., Mohamed W.R., Hussein R.M., **Arafa E.-S.A.** Edaravone alleviates methotrexate-induced testicular injury in rats: Implications on inflammation, steroidogenesis, and Akt/p53 signaling (2023) International Immunopharmacology, 117, art. no. 109969
6. **Arafa E.-S.A.**, Elgendy N.O., Elhemely M.A., Abdelaleem E.A., Mohamed W.R. Diosmin mitigates dexamethasone-induced osteoporosis in vivo: Role of Runx2, RANKL/OPG, and oxidative stress (2023) Biomedicine and Pharmacotherapy, 161, art. no. 114461
7. Ibrahim N.A., Buabeid M.A., **Shaimaa Arafa E.**, Elmorshedy K.E. Zinc's protective role against hydroxychloroquine-induced cardiac effects in adult male albino rats (2023) Saudi Journal of Biological Sciences, 30 (8), art. no. 103733
8. Abdel-Fattah M.M., Mohamed W.R., Hassanein E.H.M., Arab H.A., **Arafa E.-S.A.** Role of NF- κ B/ICAM-1, JAK/STAT-3, and apoptosis signaling in the anticancer effect of tangeretin against urethane-induced lung cancer in BALB/c mice (2023) Life Sciences, 325, art. no. 121749
9. Arab H.H., Abd El Aal H.A., Alsufyani S.E., El-Sheikh A.A.K., **Arafa E.-S.A.**, Ashour A.M., Kabel A.M., Eid A.H. Topiramate Reprofile for the Attenuation of Cadmium-Induced Testicular Impairment in Rats: Role of NLRP3 Inflammasome and AMPK/mTOR-Linked Autophagy (2022) Pharmaceuticals, 15 (11), art. no. 1402
10. Buabeid M., **Arafa E.-S.A.**, Yaseen H.S., Umar M.I., 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 (2022) Artificial Cells, Nanomedicine and Biotechnology, 50 (1), pp. 208 - 217

11. Raza A., Chohan T.A., Buabeid M., **Arafa E.-S.A.**, Chohan T.A., Fatima B., Sultana K., Ullah M.S., Murtaza G. Deep learning in drug discovery: a futuristic modality to materialize the large datasets for cheminformatics (2022) *Journal of Biomolecular Structure and Dynamics*
12. Arab H.H., Abd El-Aal S.A., Ashour A.M., El-Sheikh A.A.K., Al Khabbaz H.J., **Arafa E.-S.A.**, Mahmoud A.M., Kabel A.M. Targeting inflammation and redox perturbations by lisinopril mitigates Freund's adjuvant-induced arthritis in rats: role of JAK-2/STAT-3/RANKL axis, MMPs, and VEGF. (2022) *Inflammopharmacology*, 30 (5), pp. 1909 - 1926
13. Arab H.H., Eid A.H., El-Sheikh A.A.K., **Arafa E.-S.A.**, Ashour A.M. Irbesartan reprofiling for the amelioration of ethanol-induced gastric mucosal injury in rats: Role of inflammation, apoptosis, and autophagy (2022) *Life Sciences*, 308, art. no. 120939
14. Arab H.H., Elhemiely A.A., El-Sheikh A.A.K., Khabbaz H.J.A., **Arafa E.-S.A.**, Ashour A.M., Kabel A.M., Eid A.H. Repositioning Linagliptin for the Mitigation of Cadmium-Induced Testicular Dysfunction in Rats: Targeting HMGB1/TLR4/NLRP3 Axis and Autophagy. (2022) *Pharmaceutics*, 15 (7), art. no. 852
15. Buabeid M.A., Yaseen H.S., Asif M., Murtaza G., **Arafa E.-S.A.** Anti-Inflammatory and Anti-Angiogenic Aattributes of Moringa olifera Lam. and its Nanoclay-Based Pectin-Sericin films (2022) *Frontiers in Pharmacology*, 13, art. no. 890938
16. Ahmed L.A., Sayed R.H., Mohamed W.R., **Arafa E.-S.A.** Editorial: Safety of Polyphenolic Compounds and Their Role in Cardiovascular Diseases. (2022) *Frontiers in Cardiovascular Medicine*, 9, art. no. 940967
17. Buabeid MA, **Arafa EA**, Rani T, Ahmad FUD, Ahmed H, Hassan W, Murtaza G. Effects of Solanum lycopersicum L. (tomato) against isoniazid and rifampicin induced hepatotoxicity in wistar albino rats. *Braz J Biol.* 2022 Feb 7;84:e254552
18. 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.
19. 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.
20. **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).
21. 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.
22. 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-κB, and Matrix Metalloproteinases. *Biology* 2021, 10(5), 442.
23. **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.
24. 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.
25. 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.
26. **Arafa ESA**, Hassan W, Murtaza G, Buabeid M. Ficus carica and Sизigium cumini Regulate Glucose and Lipid Parameters in High-Fat Diet and Streptozocin-Induced Rats. *Journal of Diabetes Research.* October 2020.
27. 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.
28. 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.
29. **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.
30. **Arafa ESA**, Mohamed WR, Zaher DM, Omar HA. Gliclazide attenuates acetic acid-induced colitis via the modulation of PPARγ, NF-κB and MAPK signaling pathways. *Toxicology and Applied Pharmacology.* February 2020, 114919.
31. Shurrab NT, **Arafa ESA**. Metformin: A Review of its Therapeutic Efficacy and Adverse Effects. *Obesity Medicine.*

32. Buabeid MA, **Arafa ESA**, Murtaza G. Emerging Prospects for Nanoparticle-Enabled Cancer Immunotherapy. *Journal of Immunology Research* 2020.
33. 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).
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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).
40. Arab HH, Salama SA, Abdelghany TM, Omar HA, **Arafa EA**, Alrobaian MM, Maghrabi IA. Camel Milk Attenuates Rheumatoid Arthritis Via Inhibition of Mitogen Activated Protein Kinase Pathway. *Cell Physiol Biochem*. 2017;43(2):540-552.
41. Abd-Elbaset M, **Arafa el-SA**, El Sherbiny GA, Abdel-Bakky MS, Elgendy AM. Thymoquinone Mitigate Ischemia-Reperfusion-Induced Liver Injury in Rats: A Pivotal Role of Nitric Oxide Signaling Pathway. *Naunyn Schmiedebergs Arch Pharmacol*. 2017 Jan;390(1):69-76.
42. Almalki WH, **Arafa el-SA**, Abdallah AY, Mahfoz AM, Osman AO, Abd El-Latif HA, Shahid I. Zinc Chloride Protects against Streptozotocin-Induced Diabetic Nephropathy in Rats. *Pharmacol Pharm*, 2016 Aug; 7 (8): 331-342.
43. Arab HH, Mohamed WR, Barakat BM, **Arafa el-SA**. Tangeretin attenuates cisplatin-induced renal injury in rats: Impact on the inflammatory cascade and oxidative perturbations. *Chem Biol Interact*. 2016 Oct 25;258:205-13.
44. Omar HA, Mohamed WR, Arab HH, **Arafa el-SA**. Tangeretin alleviates cisplatin-induced acute hepatic injury in rats: Targeting MAPKs and apoptosis. *PloS One*, 2016 Mar;11(3).
45. Omar HA, Mohamed WR, **Arafa el-SA**, Shehata BA, El Sherbiny GA, Arab HH, Elgendy AM. Hesperidin alleviates cisplatin-induced hepatotoxicity in rats without inhibiting its antitumor activity. *Pharmacological Reports*, 2016 April (68): 2, 349–356
46. Abd-Elbaset M, **Arafa el-SA**, El Sherbiny GA, Abdel-Bakky MS, Elgendy AM. Quercetin Modulates iNOS, eNOS and NOSTRIN Expressions and Attenuates Oxidative Stress in Warm Hepatic Ischemia-reperfusion Injury in Rats. *Beni-Suef University Journal of Basic and Applied Sciences*, 2015 September (4): 3,246-255.
47. Arab HH, Salama SA, Omar HA, **Arafa el-SA**, Maghrabi IA. Diosmin Protects against Ethanol-Induced Gastric Injury in Rats: Novel Anti-Ulcer Actions. *PLoS One*. 2015 Mar 30;10(3).
48. Mohamed WR, **Arafa el-SA**, Shehata BA, El Sherbiny GA, Elgendy AM. Beneficial effects of hesperidin against cisplatin-induced nephrotoxicity and oxidative stress in rats. *British Journal of Pharmacology and Toxicology*, 2015.
49. Rateb ME, Hassan HM, **Arafa el-SA**, Jaspars M, Ebel R. Decorosides A and B. Cytotoxic flavonoid glycosides from the leaves of *Rhododendron decorum*. *Natural Product Communications*, **2014**. 9(4):473-476.
50. Arab HH, Salama SA, Eid AH, Omar HA, **Arafa el-SA**, Maghrabi IA. Camel's milk ameliorates TNBS-induced colitis in rats via downregulation of inflammatory cytokines and oxidative stress. *Food Chem Tox*, **2014** Apr 28; 69C:294-302.
51. Hemeida RA, Abdel-Raheem IT, El-Sherbiny GA, **Arafa el-SA**, Abdel-Gawad AS. Candesartan Modulates the Antioxidant Effect of Silymarin Against CCl4-Induced Liver Injury in Rats. *Free Radicals and Antioxidants*, **2014**; 4(1):32-38.

52. Gouda AM, Abdelazeem AH, **Arafa el-SA**, Abdellatif KR. Design, Synthesis and Pharmacological Evaluation of Novel Pyrrolizine Derivatives as Potential Anticancer Agents. *Bioorg Chem.* **2014** Apr; 53:1-7.
53. Arafa **el-SA**, Abdelazeem AH, Arab HH, Omar HA. OSU-CG5, a Novel Energy Restriction Mimetic Agent Targets The Colorectal Cancer Cells. *Acta Pharmacol Sin.* **2014** Mar; 35(3):394-400.
54. Omar HA, **Arafa el-SA**, Maghrabi IA, Weng JR. Sensitization of Hepatocellular Carcinoma Cells to Apo2L/TRAIL by a Novel Akt/NF- κ B Signaling Inhibitor. *Basic Clin Pharmacol Toxicol.* **2014** Jun; 114(6):464-71.
55. Omar HA, **Arafa el-SA**, Salama SA, Arab HH, Wu CH, Weng JR. OSU-A9 inhibits angiogenesis in human umbilical vein endothelial cells via disrupting Akt-NF- κ B and MAPK signaling pathways. *Toxicol Appl Pharmacol.* **2013** Nov 1; 272(3):616-24.
56. Omar H, Salama S, **Arafa el-SA**, Weng J-R. Antitumor effects of energy restriction-mimetic agents: thiazolidinediones. *Biological Chemistry* **2013** Jul; 394(7):865-70.
57. Mehany HA, Abo Youssef AM, Ahmed LA, **Arafa el-SA**, Abd El-Latif HA. Protective effect of vitamin E and atorvastatin against potassium dichromate-induced nephrotoxicity in rats. *Beni-Suef University Journal of Basic and Applied Sciences.* June **2013**, 2 (2); 96–102.
58. **Arafa el-SA**, Zhu Q, Shah ZI, Wani G, Barakat BM, Racoma I, El-Mahdy MA, Wani AA. Thymoquinone up-regulates PTEN expression and induces apoptosis in doxorubicin-resistant human breast cancer cells. *Mutat Res.* **2011** Jan 10; 706(1-2):28-35.
59. Barakat BM, Wang QE, Han C, Milum K, Yin DT, Zhao Q, Wani G, **Arafa el-SA**, El-Mahdy MA, Wani AA. Overexpression of DDB2 enhances the sensitivity of human ovarian cancer cells to cisplatin by augmenting cellular apoptosis. *Int J Cancer.* **2010** Aug 15; 127(4):977-88.
60. **Arafa el-SA**, Zhu Q, Barakat BM, Wani G, Zhao Q, El-Mahdy MA, Wani AA. Tangeretin sensitizes cisplatin-resistant human ovarian cancer cells through downregulation of phosphoinositide 3-kinase/Akt signaling pathway. *Cancer Res.* **2009** Dec 1; 69(23):8910-7.
61. Zhao Q, Barakat BM, Qin S, Ray A, El-Mahdy MA, Wani G, **Arafa el-S**, Mir SN, Wang QE, Wani AA. The p38 mitogen-activated protein kinase augments nucleotide excision repair by mediating DDB2 degradation and chromatin relaxation. *J Biol Chem.* **2008** Nov 21; 283(47):32553-61.
62. El-Mahdy MA, Zhu Q, Wang QE, Wani G, Patnaik S, Zhao Q, **Arafa el-S**, Barakat B, Mir SN, Wani AA. Naringenin protects HaCaT human keratinocytes against UVB-induced apoptosis and enhances the removal of cyclobutane pyrimidine dimers from the genome. *Photochem Photobiol.* **2008** Mar-Apr; 84(2):307-16.

GBD COLLABORATORS PUBLICATIONS:

1. Forecasting the effects of smoking prevalence scenarios on years of life lost and life expectancy from 2022 to 2050: a systematic analysis for the Global Burden of Disease Study 2021. *The Lancet Public Health*, 2024, 9(10), pp. e729–e744.
2. GBD 2021 Forecasting Collaborators. Burden of disease scenarios for 204 countries and territories, 2022–2050: a forecasting analysis for the Global Burden of Disease Study 2021. *The Lancet*, 2024, 403(10440), pp. 2204–2256.
3. GBD 2021 Fertility and Forecasting Collaborators. Global fertility in 204 countries and territories, 1950–2021, with forecasts to 2100: a comprehensive demographic analysis for the Global Burden of Disease Study 2021. *The Lancet*, 2024, 403(10440), pp. 2057–2099.

CONFERENCE PROCEEDINGS

1. **Arafa el-SA**, M Buabeid. Role of Nicotine Mediated Neuroprotection in MPTP-induced Parkinson's disease. *The FASEB Journal* 33 (1_supplement), lb84-lb84. April 2019.
2. **Arafa el-SA**, MW Islam. Tangeretin Protects against Ethanol-Induced Injury in Gastric Mucosa of Rats via its Antioxidants and Anti-inflammatory Activity. *The FASEB Journal* 33 (1_supplement), 505.16-505.16. April 2019.
3. **Arafa el-SA**, Mohamed WR, Arab HH, Shehata BA, Hassan HM, Raslan M, El Sherbiny GA, Elgendy AM. Quercitrin protects rats against cisplatin-induced renal and hepatic injury without hindering its beneficial cytotoxic activity. *Experimental Biology*. Chicago, IL, USA. April, 2017

4. Arab HH, Salama SA, Eid AH, Omar HA, **Arafa el-SA**, Maghrabi IA. Camel's milk ameliorates TNBS-induced colitis in rats via down-regulation of inflammatory cytokines and oxidative stress. *Experimental Biology. San Diego Convention Center, San Diego, CA, USA. April, 2014*
5. Omar, H A.; **Arafa el-SA**; Weng, J-Ru. Sensitization of Hepatocellular Carcinoma Cells to TRAIL by a Novel Akt/NF-kappaB Signaling Inhibitor. *American Association for Cancer Research, Molecular Targeted Therapies: Mechanisms of Resistance, San Diego, California, USA. May 2012.*
6. **Arafa el-SA**; Wani AA. Thymoquinone induces-cell cycle non-specific-cell death in cisplatin-resistant ovarian cancer cell through up-regulation of PTEN expression. *American Association for Cancer Research, Molecular Targeted Therapies: Mechanisms of Resistance San Diego, California, USA. May 2012.*
7. **Arafa el-SA**; Racoma I, Wani G, Wani AA. Thymoquinone induces cell death in glioblastoma cell through production of reactive oxygen species and induction of DNA damage. Proceedings of the American Association for Cancer Research Annual Meeting. Abstract nr 4225. *American Association for Cancer Research 102th Annual Meeting, Orlando, FL, USA. April 2011.*
8. **Arafa el-SA**; El-Mahdy, Mohamed A.; El-Sayed, Mostafa E.; Moawad, Helmy; Latif, Hekma A. Abdel; Zhu, Qianzheng; Barakat, Bassant M.; Wang, Qi-En; Wani, Gulzar; Mit, Safita N.; Wani, Altaf A. Combination of cisplatin and tangeretin induces apoptosis in cisplatin-resistant human ovarian cancer cells through modulation of phospho-akt and its downstream substrates. *10th Annual Midwest DNA Repair Symposium. Pittsburgh, PA. May 2008.*
9. Zhao, Qun; Wang, Qi-En; Zhu, Qianzheng; Qin, Song; El-Mahdy, Mohamed A.; Ray, Alo; Wani, Gulzar; Barakat, Bassant M.; **Arafa el-SA**; Mir, Safita N.; Wani, Altaf A. p38 Map kinase participates in optimal nucleotide excision repair through chromatin remodeling and modulation of Ddb2 degradation. *Proceedings of the American Association for Cancer Research Annual Meeting. Vol. 49: 199-200. 2008.*
10. El-Mahdy, Mohamed A.; Zhu, Qianzheng; Barakat, Bassant M.; **Arafa el-SA**; Wang, Qi-En; Zhao, Qun; Wani, Gulzar; Ray, Alo; Wani, Altaf A. Thymoquinone upregulates Pten expression and induces apoptosis in doxorubicin-resistant human breast cancer cells. *Proceedings of the American Association for Cancer Research Annual Meeting. Vol. 49: 148. 2008.*
11. Barakat, Bassant M.; Wang, Qi-En; Zhao, Qun; Hamada, Farid M. A.; Ali, Azza A.; Taha, Ragia A.; El-Mahdy, Mohamed A.; Zhu, Qianzheng; **Arafa el-SA**; Wani, Gulzar; Qin, Song; Wani, Altaf A. Ddb2 is involved in cisplatin sensitivity through enhancement of apoptosis but not DNA repair. *Proceedings of the American Association for Cancer Research Annual Meeting. Vol. 49: 166. 2008*
12. **Arafa el-SA**; El-Mahdy, Mohamed A.; El-Sayed, Mostafa E.; Moawad, Helmy; Latif, Hekma A. Abdel; Zhu, Qianzheng; Barakat, Bassant M.; Wang, Qi-En; Wani, Gulzar; Mit, Safita N.; Wani, Altaf A. Combination of cisplatin and tangeretin induces apoptosis in cisplatin-resistant human ovarian cancer cells through modulation of phospho-akt and its downstream substrates. Proceedings of the American Association for Cancer Research Annual Meeting. Vol. 49: 803. *American Association for Cancer Research 99th Annual Meeting, San Diego, California, 2008.*

ATTENDED CONFERENCES AND WORKSHOPS

- Excellence in Oncology Care. Dubai, UAE, October 2024.
- "ChatGPT in Higher Education: Opportunities and Challenges" Workshop, Ajman, UAE 2023.
- 5th International Conference on Antimicrobial Resistance. Dubai, UAE. March 2022.
- 8th Emirati-German Congress in Medicine and Dental Medicine. Sharjah, UAE. November 2021.
- Second Forum for Women in Research "Quwa: Empowering Women in Research and Innovation". University of Sharjah, UAE. August 2021.
- Cardiovascular Complications of COVID-19. Harvard Medical School. May 2020.
- COVID-19 in People with Diabetes or Obesity. Harvard Medical School. May 2020.
- The 4th International Conference of Pharmacy and Medicine- Ajman, UAE. November 2019.
- Excellence in Oncology Care-Dubai, UAE. October 2019.
- Branding Pharmacy via Education Summit. Sharjah, UAE. September 2019.
- Experimental Biology. Orlando, FL, USA. April, 2019
- OSCE Training Workshop-Ajman, UAE. March 2019.
- The 2nd International Conference of Pharmacy and Medicine- Sharjah, UAE. November 2018.
- UAE Cancer Congress 2018 – Dubai, UAE. October 2018.
- Introducing to SDS Page/3 Western Workflow- BIO-RAD Laboratories, Dubai, UAE. October 2018.

- Professional development workshop on “Essential Skills for Advancing Research Output”-Ajman, UAE. September 2018.
- OSCEology-UAE, enhancing pharmacy education in UAE- University of Sharjah, Sharjah, UAE. February 2018.
- 1st Annual Conference in Sports Medicine 2017- Ajman, UAE. December 2017.
- International Conference of Pharmacy and Medicine – Ajman, UAE. November 2017.
- The 4th Middle East Molecular Biology Congress and Exhibition 2017- Abu Dhabi. November 2017.
- UAE Cancer Congress 2017 – Dubai, UAE. October 2017.
- Experimental Biology. Chicago, IL, USA. April, 2017.
- Twenty second Dubai International Pharmaceuticals and Technologies Conference and Exhibition – Dubai, UAE. March 2017.
- Dubai Health Forum – Dubai, UAE. January 2017.
- Ninth Dubai International Conference for Medical Sciences – Dubai, UAE. December 2016.
- Improving Lung Health in the UAE- Ajman University of Science and Technology, Ajman, UAE. May 2016.
- Moodle El-Learning System (Advanced Level)-Ajman University of Science and Technology, Ajman UAE. March 2016.
- Twenty First Dubai International Pharmaceuticals and Technologies Conference and Exhibition – Dubai, UAE. March 2016.
- Chronic Obstructive Pulmonary Disease and Smoking Cessation - Ajman University of Science and Technology, Ajman, UAE. May 2015.
- Statistical Package for Social Sciences (SPSS) in Academic Research- Ajman University of Science and Technology, Ajman UAE. March 2015.
- Diabetes and the Eye – Rashid Centre for Diabetes and Research, Ajman, UAE. March 2015.
- Twentieth Dubai International Pharmaceuticals and Technologies Conference and Exhibition – Dubai, UAE. March 2015.
- Eighth Dubai International Conference for Medical Sciences – Dubai, UAE. December 2014.
- Recent Advances in Chemistry and Biology of Natural Products. Beni-Suef University, Egypt. August 2014.
- Fifth Laboratory and Blood Bank Awareness - Taif University – Taif, KSA. February 2013.
- Developing Research Abilities: Idea Formulation and Research Management – King Abdulaziz City for Science and Technology, KSA. November 2012.
- How to Design and Interpret a Medical Survey – Taif University – Taif, KSA. October 2012.
- American Association for Cancer Research, Molecular Targeted Therapies: Mechanisms of Resistance—San Diego, California, USA. May 2012.
- The Pharmacist’s Role in Achieving Healthcare Outcomes- MIU University, Egypt. March 2012
- Biovision: 7th edition of the international life sciences forum—Lyon, France. March 2011.
- Recent Advances in pharmaceutical Research- Beni-Suef University, Egypt. January 2011.
- Comprehensive Cancer Center 12th Annual Scientific Meeting—Columbus, Ohio, USA. February 2010.
- 10th Annual Midwest DNA Repair Symposium—Pittsburgh, Pennsylvania, USA. May 2008.
- American Association for Cancer Research 99th Annual meeting—San Diego, California, USA. April 2008.
- Comprehensive Cancer Center 10th Annual Scientific Meeting—Columbus, Ohio, USA. February 2008.
- 9th Annual Midwest DNA Repair Symposium—Lewis Center, Ohio, USA. May 2007.
- Comprehensive Cancer Center 9th Annual Scientific Meeting—Columbus, Ohio, USA. February 2007.

AWARDS

- Best Scientific Research Award, 7th AU Students' Research, Ajman University, Ajman, UAE. May 2024.
- Best Innovative Research Idea, First international Pharmacy conference at Sharjah University. March 2023.
- Best Antibiotic Resistance Poster, 5th International Conference on Antimicrobial Resistance, UAE, March 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.

REFERENCES

- **Prof. Dr. Altaf. A. Wani**
Professor of Biochemistry and Division Chief of Radiobiology, Radiobiology Department, The Ohio State University, USA.
Tel: +1-614 292 9015; Fax: 614 292 9102
E-mail: wani.2@osu.edu
- **Prof. Dr. Mohamed A. El-Mahdy**
Professor and research associate, Davis Heart and Lung Research Institute, The Ohio state University, USA.
Tel: +1-614 292 2367
E-mail: mohamed.el-mahdy@osumc.edu