

Published International Scientific Research

2017-2023



School of Pharmacy
NewGiza University

Contents

Section 1: Sustainable Development Goal 3.....	2
Section 2: Sustainable Development Goal 6.....	43
Section 3: Sustainable Development Goal 9.....	45
Section 4: Sustainable Development Goal 15.....	47

Section 1: Sustainable Development Goal 3

3 GOOD HEALTH AND WELL-BEING



1. Hammad RW, Sanad RA, **Abdelmalak NS**, Latif R. Cubosomal functionalized block copolymer platform for dual delivery of linagliptin and empagliflozin: Recent advances in synergistic strategies for maximizing control of high-risk type II diabetes. *Drug Deliv Transl Res.* 2024 Mar;14(3):678-695.
DOI: [10.1007/s13346-023-01423-7](https://doi.org/10.1007/s13346-023-01423-7).
2. Mona M. Saber, Manal Moustafa Mahmoud, Hesham M. Amin, **Reham M. Essam**, Therapeutic effects of combining curcumin and swimming in osteoarthritis using a rat model, *Biomedicine & Pharmacotherapy*, Volume 166, 2023, 115309, ISSN 0753-3322
DOI: <https://doi.org/10.1016/j.biopha.2023.115309>.
3. **Salah M**, Tahoun M, Rudzitis-Auth J, et al. Potent Dual Inhibitors of Steroid Sulfatase and 17 β -Hydroxysteroid Dehydrogenase Type 1 with a Suitable Pharmacokinetic Profile for In Vivo Proof-of-Principle Studies in an Endometriosis Mouse Model. *J Med Chem.* 2023;66(13):8975-8992.
DOI: [10.1021/acs.jmedchem.3c00571](https://doi.org/10.1021/acs.jmedchem.3c00571)
4. Rehab F. Ahmed, Walaa R. Mahmoud, Nagwa M. Abdelgawad, **Marwa A. Fouad**, Mona F. Said, Exploring novel anticancer pyrazole benzenesulfonamides featuring tail approach strategy as carbonic anhydrase inhibitors, *European Journal of Medicinal Chemistry*, Volume 261, 2023, 115805, ISSN 0223-5234,
DOI: <https://doi.org/10.1016/j.ejmech.2023.115805>.
5. Ahmed HH, **Essam RM**, El-Yamany MF, Ahmed KA, **El-Sahar AE**. Unleashing lactoferrin's antidepressant potential through the PI3K/Akt/mTOR pathway in chronic restraint stress rats. *Food Funct.* 2023;14(20):9265-9278. Published 2023 Oct 16.
DOI: <https://doi.org/10.1039/D3FO02222F>

6. **Ayman E. El-Sahar**, Nadine Bekhit, **Noha M. Eissa**, **Rania M. Abdelsalam**, **Reham M. Essam**, Targeting HMGB1/PI3K/Akt and NF- κ B/Nrf-2 signaling pathways by vildagliptin mitigates testosterone-induced benign prostate hyperplasia in rats, *Life Sciences*, Volume 322, 2023, 121645, ISSN 0024-3205, DOI: <https://doi.org/10.1016/j.lfs.2023.121645>.
7. El-Maraghy SA, Reda A, **Essam RM**, Kortam MA. The citrus flavonoid "Nobiletin" impedes STZ-induced Alzheimer's disease in a mouse model through regulating autophagy mastered by SIRT1/FoxO3a mechanism. *Inflammopharmacology*. 2023;31(5):2701-2717.
DOI: [10.1007/s10787-023-01292-z](https://doi.org/10.1007/s10787-023-01292-z)
8. **Ewaisha R**, Anderson KS. Immunogenicity of CRISPR therapeutics- Critical considerations for clinical translation. *Front Bioeng Biotechnol*. 2023;11:1138596. Published 2023 Feb 16.
DOI: [10.3389/fbioe.2023.1138596](https://doi.org/10.3389/fbioe.2023.1138596)
9. El-Hussieny M, Abd-El-Maksoud MA, Soliman FM, **Fouad MA**, El-Ashrey MK. Dual-target ligand discovery for Alzheimer's disease: triphenylphosphoranylidene derivatives as inhibitors of acetylcholinesterase and β -amyloid aggregation. *J Enzyme Inhib Med Chem*. 2023;38(1):2166040.
DOI: [10.1080/14756366.2023.2166040](https://doi.org/10.1080/14756366.2023.2166040)
10. Elbaz EM, **Essam RM**, Ahmed KA, Safwat MH. Donepezil halts acetic acid-induced experimental colitis in rats and its associated cognitive impairment through regulating inflammatory/oxidative/apoptotic cascades: An add-on to its anti-dementia activity. *Int Immunopharmacol*. 2023;116:109841.
DOI: [10.1016/j.intimp.2023.109841](https://doi.org/10.1016/j.intimp.2023.109841)
11. **Essam RM**, Kandil EA. p-CREB and p-DARPP-32 orchestrating the modulatory role of cAMP/PKA signaling pathway enhanced by Roflumilast in rotenone-induced Parkinson's disease in rats. *Chem Biol Interact*. 2023 Feb 25;372:110366.
DOI: [10.1016/j.cbi.2023.110366](https://doi.org/10.1016/j.cbi.2023.110366).

12. Abdel-Mohsen HT, **El Kerdawy AM**, Petreni A, Supuran CT. Novel benzenesulfonamide-thiouracil conjugates with a flexible N-ethyl acetamide linker as selective CA IX and CA XII inhibitors. Arch Pharm (Weinheim). 2023 Feb;356(2):e2200434.
DOI: [10.1002/ardp.202200434](https://doi.org/10.1002/ardp.202200434).
13. Ghannam IAY, **El Kerdawy AM**, Mounier MM, Abo-Elfadl MT, Ali IH. Novel 2-oxo-2-phenylethoxy and benzyloxy diaryl urea hybrids as VEGFR-2 inhibitors: Design, synthesis, and anticancer evaluation. Arch Pharm (Weinheim). 2023 Feb;356(2):e2200341.
DOI: [10.1002/ardp.202200341](https://doi.org/10.1002/ardp.202200341)
14. Abdel Rahman DE, **Fouad MA**, Mohammed ER, El-Zoheiry HH, Abdelrasheed Allam H. Novel VEGFR-2 inhibitors as antiangiogenic and apoptotic agents via paracrine and autocrine cascades: Design, synthesis, and biological evaluation. Bioorg Chem. 2023 Oct;139:106678.
DOI: [10.1016/j.bioorg.2023.106678](https://doi.org/10.1016/j.bioorg.2023.106678).
15. El-Gazzar YI, Ghaiad HR, **El Kerdawy AM**, George RF, Georgey HH, Youssef KM, El-Subbagh HI. New quinazolinone-based derivatives as DHFR/EGFR-TK inhibitors: Synthesis, molecular modeling simulations, and anticancer activity. Arch Pharm (Weinheim). 2023 Jan;356(1):e2200417.
DOI: [10.1002/ardp.202200417](https://doi.org/10.1002/ardp.202200417).
16. ElMonier AA, El-Boghdady NA, **Fahim SA**, Sabry D, Elsetohy KA, Shaheen AA. LncRNA NEAT1 and MALAT1 are involved in polycystic ovary syndrome pathogenesis by functioning as competing endogenous RNAs to control the expression of PCOS-related target genes. Noncoding RNA Res. 2023 Mar 3;8(2):263-271.
DOI: [10.1016/j.ncrna.2023.02.008](https://doi.org/10.1016/j.ncrna.2023.02.008).

17. Abd-Elmawla MA, **Essam RM**, Ahmed KA, Abdelmonem M. Implication of Wnt/GSK-3 β / β -Catenin Signaling in the Pathogenesis of Mood Disturbances Associated with Hyperthyroidism in Rats: Potential Therapeutic Effect of Naringin. *ACS Chem Neurosci*. 2023 Jun 7;14(11):2035-2048.
DOI: [10.1021/acschemneuro.3c00013](https://doi.org/10.1021/acschemneuro.3c00013).
18. Ola Ahmed Saleh, Amr Mohamed Badawey, Hassan Y. Aboul Enein and **Marwa Ahmed Fouad**. Enantioseparation, quantification, molecular docking and molecular dynamics study of five β adrenergic blockers on Lux Cellulose 2 column. *BMC Chemistry*, (2023) 17 (1), art. no. 22.
DOI: [10.1186/s13065-023-00925-2](https://doi.org/10.1186/s13065-023-00925-2)
19. **Salah, M.**; Tahoun, M.; Rudzitis-Auth, J.; Stotz, L.; van Koppen, C. J.; Laschke, M. W.; Abdelsamie, A. S.; Frotscher, M. Potent Dual Inhibitors of Steroid Sulfatase and 17 β Hydroxysteroid Dehydrogenase Type 1 with a Suitable Pharmacokinetic Profile for In Vivo Proof-of-Principle Studies in an Endometriosis Mouse Model. *J. Med. Chem*. 2023, 66 (13), 8975–8992.
DOI: [10.1021/acs.jmedchem.3c00571](https://doi.org/10.1021/acs.jmedchem.3c00571)
20. El-Hussieny, M., Abd-El-Maksoud, M.A., Soliman, F.M., **Fouad, M.A.**, El-Ashrey, M.K. Dual-target ligand discovery for Alzheimer's disease: triphenylphosphoranylidene derivatives as inhibitors of acetylcholinesterase and β -amyloid aggregation. *Journal of Enzyme Inhibition and Medicinal Chemistry*, (2023) 38 (1), art. no. 2166040.
DOI: [10.1080/14756366.2023.2166040](https://doi.org/10.1080/14756366.2023.2166040)
21. Salem, W.A., Elkady, E.F., **Fouad, M.A.**, Mohammad, M.A.-A. DoE Screening and Optimization of Liquid Chromatographic Determination of Nicotinic Acid and Six Statins: Application to Pharmaceutical Preparations and Counterfeit Detection. *Journal of chromatographic science*, (2023) 61 (1), pp. 74-86.
DOI: [10.1093/chromsci/bmab131](https://doi.org/10.1093/chromsci/bmab131)

22. Abdel Rahman, D.E., **Fouad, M.A.**, Mohammed, E.R., El- Zoheiry, H.H., Abdelrasheed Allam, H. Novel VEGFR-2 inhibitors as antiangiogenic and apoptotic agents via paracrine and autocrine cascades: Design, synthesis, and biological evaluation. *Bioorg. Chem.* (2023) 139, 106678.
DOI: [10.1016/j.bioorg.2023.106678](https://doi.org/10.1016/j.bioorg.2023.106678)
23. Ezzat, M.A.F., Abdelhamid, S.M., **Fouad, M.A.**, Abdel-Aziz, H.A., Allam, H.A. Design, synthesis, in vitro, and in vivo evaluation of novel phthalazinone-based derivatives as promising acetylcholinesterase inhibitors for treatment of Alzheimer's disease. *Drug Development Research*, (2023) 84(6), pp. 1231–1246
DOI: [10.1002/ddr.22082](https://doi.org/10.1002/ddr.22082)
24. Ezzat, M.A.F., Elmasry, G.F., El-Mageed, M.M.A.A., **Fouad, Marwa A.**, Abdel-Aziz, H.A., Elewa, S.I. Design, synthesis, and biological evaluation of furan-bearing pyrazolo[3,4- b]pyridines as novel inhibitors of CDK2 and P53–MDM2 protein–protein interaction. *Drug Development Research*, (2023) 84(6), pp. 1183–1203
DOI: [10.1002/ddr.22079](https://doi.org/10.1002/ddr.22079)
25. Ahmed, R.F., Mahmoud, W.R., Abdelgawad, N.M., **Fouad, M.A.**, Said, M.F. Exploring novel anticancer pyrazole benzenesulfonamides featuring tail approach strategy as carbonic anhydrase inhibitors. *European Journal of Medicinal Chemistry*, (2023) 261, 115805.
DOI: [10.1016/j.ejmech.2023.115805](https://doi.org/10.1016/j.ejmech.2023.115805)
26. Ehab Elkady, **Marwa Fouad**, Ayoub Mozayad. Application of Box–Behnken Design and Response Surface Methodology for Selecting the Optimum RP-HPLC Conditions for the Simultaneous Determination of Paracetamol and Diclofenac Sodium Along With Three Skeletal Muscle Relaxants in Three Different Pharmaceutical Dosage Forms. *Journal of chromatographic science*, (2023): bmad051.
DOI: [10.1093/chromsci/bmad051](https://doi.org/10.1093/chromsci/bmad051)

27. Bekheit, M. S., Sabry, E., Mohamed, H. A., Ewies, E. F., Kariuki, B. M., **Fouad, M. A.**, Vullo, D., & Supuran, C. T. (2023). Novel sulfonamide-phosphonate conjugates as carbonic anhydrase isozymes inhibitors. *Drug Development Research*, 1–12.
DOI: [10.1002/ddr.22135](https://doi.org/10.1002/ddr.22135)
28. I. A. Y. Ghannam, **A. M. El Kerdawy**, M. M. Mounier, M. T. Abo-elfadl, I. H. Ali, Novel 2-oxo-2-phenylethoxy and benzyloxy diaryl urea hybrids as VEGFR-2 inhibitors: Design, synthesis, and anticancer evaluation *Arch. Pharm.* 2023; 356:e2200341
DOI: [10.1002/ardp.202200341](https://doi.org/10.1002/ardp.202200341)
29. Heba T Abdel-Mohsen, **Ahmed M El Kerdawy**, Andrea Petreni, Claudiu T Supuran. Novel benzenesulfonamide-thiouracil conjugates with a flexible N-ethyl acetamide linker as selective CA IX and CA XII inhibitors. *Arch Pharm (Weinheim)* (2023) Feb;356(2):e2200434.
DOI: [10.1002/ardp.202200434](https://doi.org/10.1002/ardp.202200434)
30. Yomna I El-Gazzar, Heba R Ghaiad, **Ahmed M El Kerdawy**, Riham F George, Hanan H Georgey, Khairia M Youssef, Hussein I El-Subbagh. New quinazolinone-based derivatives as DHFR/EGFR-TK inhibitors: Synthesis, molecular modeling simulations, and anticancer activity. *Arch Pharm (Weinheim)* (2023) Jan;356(1):e2200417.
DOI: [10.1002/ardp.202200417](https://doi.org/10.1002/ardp.202200417)
31. Rania S M Ismail, **Ahmed M El Kerdawy**, Dalia H Soliman, Hanan H Georgey, Nagwa M Abdel Gawad, Andrea Angeli, Claudiu T Supuran. Discovery of a new potent oxindole multi-kinase inhibitor among a series of designed 3-alkenyl-oxindoles with ancillary carbonic anhydrase inhibitory activity as antiproliferative agents. *BMC Chem* (2023) 18;17(1):81.
DOI: [10.1186/s13065-023-00994-3](https://doi.org/10.1186/s13065-023-00994-3)

- 32.Hoda E. Mohamed, **Medhat A. Al-Ghobashy**, Samah S. Abbas, Shereen A. Boltia. Stability assessment of polatuzumab vedotin and brentuximab vedotin using different analytical techniques. J Pharm Biomed Anal (2023). Volume 228, 115249, ISSN 0731-7085, DOI: [10.1016/j.jpba.2023.115249](https://doi.org/10.1016/j.jpba.2023.115249).
- 33.Abdel-Mohsen H.T., Omar M.A., Kutkat O., **Kerdawy A.M.E.**, Osman A.A., GabAllah M., Mostafa A., Ali M.A., Diwani H.I.E. Abdel-Mohsen, Heba T.; Omar, Mohamed A.; Kutkat, Omnia; Kerdawy, Ahmed M. El; Osman, Alaa A.; GabAllah, Mohamed; Mostafa, Ahmed; Ali, Mohamed A.; Diwani, Hoda I. El. Discovery of novel thioquinazoline-N-aryl-acetamide/N-arylaceto-hydrazide hybrids as anti-SARS-CoV-2 agents: Synthesis, in vitro biological evaluation, and molecular docking studies (2023) Journal of Molecular Structure, 1276, 134690. DOI: [10.1016/j.molstruc.2022.134690](https://doi.org/10.1016/j.molstruc.2022.134690)
- 34.Essam, **R.M.**, Saadawy, M.A., **Gamal, M.**, **Abdelsalam, R.M.**, **El-Sahar, A.E.** Lactoferrin averts neurological and behavioral impairments of thioacetamide-induced hepatic encephalopathy in rats via modulating HGMB1/TLR-4/MyD88/Nrf2 pathway. Neuropharmacology, (2023), 236, 109575. DOI: [10.1016/j.neuropharm.2023.109575](https://doi.org/10.1016/j.neuropharm.2023.109575)
- 35.El-Sahar, **A.E.**, Bekhit, N., **Eissa, N.M.**, **Abdelsalam, R.M.**, **Essam, R.M.** Targeting HMGB1/PI3K/Akt and NF- κ B/Nrf-2 signaling pathways by vildagliptin mitigates testosterone-induced benign prostate hyperplasia in rats. Life Sciences, (2023), 322, 121645 DOI: [10.1016/j.lfs.2023.121645](https://doi.org/10.1016/j.lfs.2023.121645).

36. Hebatollah E Eitah, Hanan Naeim Attia, Ahmed A F Soliman, Amina A Gamal El Din, Khaled Mahmoud, Rabab H Sayed, Yousreya A Maklad, **Ayman E El-Sahar**. Vitamin D ameliorates diethylnitrosamine-induced liver preneoplasia: A pivotal role of CYP3A4/CYP2E1 via DPP-4 enzyme inhibition. *Toxicol Appl Pharmacol.* (2023) 1:458:116324.
DOI: [10.1016/j.taap.2022.116324](https://doi.org/10.1016/j.taap.2022.116324)
37. Hanan H. Ahmed, **Reham M. Essam**, Muhammed F. El- Yamany, Kawkab A. Ahmed and **Ayman E. El-Sahar**. Unleashing Lactoferrin's antidepressant potential through the PI3K/Akt/mTOR pathway in chronic restraint stress rats. *Food Funct.* 2023
DOI: [10.1039/d3fo02222f](https://doi.org/10.1039/d3fo02222f).
38. **Reham M Essam**, Esraa A Kandil. p-CREB and p-DARPP-32 orchestrating the modulatory role of cAMP/PKA signaling pathway enhanced by Roflumilast in rotenone-induced Parkinson's disease in rats. *Chem Biol Interact.* (2023) 25:372:110366.
DOI: [10.1016/j.cbi.2023.110366](https://doi.org/10.1016/j.cbi.2023.110366)
39. Mona M Saber, Manal Moustafa Mahmoud, Hesham M Amin, **Reham M Essam**. Therapeutic effects of combining curcumin and swimming in osteoarthritis using a rat model. *Biomed Pharmacother.* (2023)166:115309.
DOI: [10.1016/j.biopha.2023.115309](https://doi.org/10.1016/j.biopha.2023.115309).
40. **Ewaisha, R.**, & Anderson, K. S. Immunogenicity of CRISPR therapeutics—Critical considerations for clinical translation. *Frontiers in Bioengineering and Biotechnology.* 2023, volume 11.
DOI: [10.3389/fbioe.2023.1138596](https://doi.org/10.3389/fbioe.2023.1138596)
41. **Fahim SA**, Ibrahim S, Tadros SA, Badary OA. Protective effects of butylated hydroxytoluene on the initiation of N-nitrosodiethylamine-induced hepatocellular carcinoma in albino rats. *Hum Exp Toxicol.* 2023 Jan-Dec; 42:9603271231165664

42. Abdalhameid, E., Abd El-Haleim, E.A., **Abdelsalam, R.M.**, Fawzy, H.M., Kenawy, S.A. Cinnamic acid mitigates methotrexate-induced lung fibrosis in rats: comparative study with pirfenidone. *Naunyn-Schmiedeberg's Archives of Pharmacology*, (2023).
DOI: [10.1007/s00210-023-02652-w](https://doi.org/10.1007/s00210-023-02652-w)
43. Mai A Abd-Elmawla, **Reham M Essam**, Kawkab A Ahmed, Maha Abdelmonem. Implication of Wnt/GSK-3 β / β -Catenin Signaling in the Pathogenesis of Mood Disturbances Associated with Hyperthyroidism in Rats: Potential Therapeutic Effect of Naringin. *ACS Chem Neurosci.* (2023);14(11):2035-2048.
DOI: [10.1021/acchemneuro.3c00013](https://doi.org/10.1021/acchemneuro.3c00013).
44. Eman M Elbaz, **Reham M Essam**, Kawkab A Ahmed, Maheera H Safwat. Donepezil halts acetic acid-induced experimental colitis in rats and its associated cognitive impairment through regulating inflammatory/oxidative/apoptotic cascades: An add-on to its anti-dementia activity. *Int Immunopharmacol.* (2023), 116:109841.
DOI: [10.1016/j.intimp.2023.109841](https://doi.org/10.1016/j.intimp.2023.109841)
45. Shohda A El-Maraghy, Aya Reda, **Reham M Essam**, Mona A Kortam. The citrus flavonoid “Nobiletin” impedes STZ- induced Alzheimer’s disease in a mouse model through regulating autophagy mastered by SIRT1/FoxO3a mechanism. *Inflammopharmacology* (2023);31(5):2701-2717.
46. Mariam Omara, Mohamed Hagra, Mohamed M Elsebaie, Nader S Abutaleb, Hanzada T Nour El-Din, Maria O Mekhail, **Ahmed S Attia**, Mohamed N Seleem, Marwa T Sarg, Abdelrahman S Mayhoub. Exploring novel aryl/heteroaryl- isosteres of phenylthiazole against multidrug-resistant bacteria. *RSC Adv.* (2023) Jul6;13(29):19695-19709.
DOI: [10.1039/d3ra02778c](https://doi.org/10.1039/d3ra02778c).

47. Badr AM, Elkholy O, Said M, **Fahim SA**, El-Khatib M, Sabry D, Gaber RM. Diagnostic significance of hsa_circ_0000146 and hsa_circ_0000072 biomarkers for Diabetic Kidney Disease in patients with type 2 diabetes mellitus. *J Med Biochem.* (2023) Mar 15;42(2):239-248.
DOI: [10.5937/jomb0-39361](https://doi.org/10.5937/jomb0-39361).
48. ElMonier AA, El-Boghdady NA, **Fahim SA**, Sabry D, Elsetohy KA, Shaheen AA. LncRNA NEAT1 and MALAT1 are involved in polycystic ovary syndrome pathogenesis by functioning as competing endogenous RNAs to control the expression of PCOS-related target genes. *Noncoding RNA Res.* (2023) Mar 3;8(2):263-271.
DOI: [10.1016/j.ncrna.2023.02.008](https://doi.org/10.1016/j.ncrna.2023.02.008).
49. Shimaa Abdelsattar *, **Sally A. Fahim**, Hiba S Al-Amodi, Hala F.M. Kamel, Zeinab A. Kasemy, Fatma O. Khalil, Mahmoud S. Abdallah, Hanan M Bedair, Abd El-Naser Abd El-Ati Gad Alla, Alyaa Sabry, Mohamed A. Sakr, Mahmoud Selim, Eman M. Abd Elgayed. The Potential Role of Circulating Long miscellaneous RNAs in the Diagnosis and Prognosis of hepatitis C related Hepatocellular Carcinoma. *Non-Coding RNA.* 9.5 (2023): 62.
50. Reham Hammad, Rania Sanad, **Nevine S. Abd El Malak**, Randa Latif. Cubosomal-functionalized block copolymer platform for dual delivery of linagliptin and empagliflozin: Recent advances in synergistic strategies for maximizing control of high-risk type II diabetes. *Drug Delivery and Translational Research.* (2023)
51. Sandy N Aziz , Alia A Badawy , Demiana I Nessem , **Nevine S Abd El Malak** , Marianne J Naguib. Chitosan-coated alginate (CCA) nanoparticles for augmentation of topical antihistaminic activity of diphenhydramine: in-vitro optimization, skin histopathology and pharmacodynamic studies with in vitro/in vivo correlation. *Drug development & industrial pharmacy.* (2023) Apr;49(4):316-327

52. Naglaa F. El-Sayed, Marwa El-Hussieny, Ewies F. Ewies, Mohamed F. El Shehry, Hanem M. Awad, **Marwa A. Fouad**. “Design, synthesis, biological evaluation, and molecular docking of new benzofuran and indole derivatives as tubulin polymerization inhibitors”, *Drug Development Research*, 83(2), 485-500, (2022).
DOI: [10.1002/ddr.21880](https://doi.org/10.1002/ddr.21880).
53. **Fouad, Marwa A.**; Serag, Ahmed; Tolba, Enas H.; El-Shal, Manal A.; El Kerdawy, Ahmed M. “QSRR modeling of the chromatographic retention behavior of some quinolone and sulfonamide antibacterial agents using firefly algorithm coupled to support vector machine”, *BMC Chemistry*, **16**, 85, 2022
DOI: [10.1186/s13065-022-00874-2](https://doi.org/10.1186/s13065-022-00874-2)
54. Wagdy M. Eldehna, Raed M. Maklad, Hadia Almahli, Tarfah Al-Warhi, Eslam B. Elkaeed, Mohammed A. S. Abourehab, Hatem A. Abdel-Aziz and **Ahmed M. El Kerdawy**. Identification of 3-(piperazinylmethyl) benzofuran derivatives as novel type II CDK2 inhibitors: design, synthesis, biological evaluation, and in silico insights. *J. Enz. Inhib. Med. Chem.* 37(1), 1227–1240 (2022).
DOI: [10.1080/14756366.2022.2062337](https://doi.org/10.1080/14756366.2022.2062337).
55. Eman A. Abd El-Meguid, Ahmed M. Naglah, Gaber O. Moustafa, Hanem M. Awad, **Ahmed M. El Kerdawy**. Novel benzothiazole-based dual VEGFR-2/EGFR inhibitors targeting breast and liver cancers: Synthesis, cytotoxic activity, QSAR and molecular docking studies *Bioorg. Med. Chem. Lett.* **58**, 128529 (2022).
56. Mohi El-Deen, Eman M.; Abd El-Meguid, Eman A.; Fathy, Usama; Karam, Eman A. ; **El Kerdawy, Ahmed M.** Synthesis and Biological Evaluation of New 3-Substituted-pyrazolo[3,4-b]pyridine Derivatives as Antimicrobial Agents and DHFR Inhibitors. *Egyptian Journal of Chemistry* Volume 65, Issue 132, Pages 1281 – 1298 December 2022

- 57.El Gizawy HA, El-Haddad AE, Attia YM, **Fahim SA**, Zafer MM, **Saadelddeen AM**. In Vitro Cytotoxic Activity and Phytochemical Characterization (UPLC/T-TOF-MS/MS) of the Watermelon (*Citrullus lanatus*) Rind Extract. *Molecules*. 12;27(8):2480 (2022). DOI: [10.3390/molecules27082480](https://doi.org/10.3390/molecules27082480).
- 58.Asmaa Raafat, Samar Mowafy, Sahar M. Abouseri, **Marwa A. Fouad**, Nahla A. Farag. “Lead generation of cysteine based mesenchymal epithelial transition (c-Met) kinase inhibitors: Using structure-based scaffold hopping, 3D-QSAR pharmacophore modeling, virtual screening, molecular docking, and molecular dynamics simulation”, *Computers in Biology and Medicine*, **146**, 105526,(2022). DOI: [10.1016/j.compbiomed.2022.105526](https://doi.org/10.1016/j.compbiomed.2022.105526)
- 59.Ewies, Ewies F.; Sabry, Eman; Bekheit, Mohamed S.; **Fouad, Marwa A.**; Vullo, Daniela; Supuran, Claudiu T. “Click chemistry-based synthesis of new benzenesulfonamide derivatives bearing triazole ring as selective carbonic anhydrase II inhibitors”, *Drug Development Research*, (2022) In press. DOI: [10.1002/ddr.21957](https://doi.org/10.1002/ddr.21957)
- 60.El-Kersh, Dina M.; Abou El-Ezz, Rania F.; **Fouad, Marwa**; Farag, Mohamed A. “Unveiling Natural and Semisynthetic Acylated Flavonoids: Chemistry and Biological Actions in the Context of Molecular Docking”, *Molecules*, **27:5501**, (2022) DOI: [10.3390/molecules27175501](https://doi.org/10.3390/molecules27175501)
- 61.Elkady, Ehab F.; **Fouad, Marwa A.**; Mozayad, Ayoub N. “Application of Box-Behnken experimental design and response surface methodology for selecting the optimum RP-HPLC conditions for the simultaneous determination of methocarbamol, indomethacin and betamethasone in their pharmaceutical dosage form”, *BMC Chemistry* **16**, 114 (2022)

DOI: [10.1186/s13065-022-00908-9](https://doi.org/10.1186/s13065-022-00908-9)

62. Ali IH, Abdel-Mohsen HT, Mounier MM, Abo-Elfadl MT, **El Kerdawy AM**, Ghannam IAY. Design, synthesis and anticancer activity of novel 2-arylbenzimidazole/2-thiopyrimidines and 2-thioquinazolin-4(3H)-ones conjugates as targeted RAF and VEGFR-2 kinases inhibitors. *Bioorg. Chem.* **126:105883 (2022)**
DOI: [10.1016/j.bioorg.2022.105883](https://doi.org/10.1016/j.bioorg.2022.105883).
63. Al-Warhi T, **El Kerdawy AM**, Said MA, Albohy A, Elsayed ZM, Aljaeed N, Elkaeed EB, Eldehna WM, Abdel-Aziz HA, Abdelmoaz MA Novel 2-(5-Aryl-4,5-Dihydropyrazol-1-yl)thiazol-4-One as EGFR Inhibitors: Synthesis, Biological Assessment and Molecular Docking Insights. *Drug Des Devel Ther.* **16;16:1457-1471 (2022)**
DOI: [10.2147/DDDT.S356988](https://doi.org/10.2147/DDDT.S356988).
64. Hassan RM, Ali IH, Abdel-Maksoud MS, Abdallah HMI, **El Kerdawy AM**, Sciandra F, Ghannam IAY. Design and synthesis of novel quinazolinone-based fibrates as PPAR α agonists with antihyperlipidemic activity. *Arch Pharm (Weinheim)*, 355(3):e2100399 (2022).
65. Abdel-Mohsen HT, **El Kerdawy AM**, Omar MA, Petreni A, Allam RM, El Diwani HI, Supuran CT Application of the dual-tail approach for the design and synthesis of novel Thiopyrimidine-Benzenesulfonamide hybrids as selective carbonic anhydrase inhibitors. *Eur J Med Chem.* 15;228:114004 (2022).
66. El Gizawy HA, El-Haddad AE, **Saadeldeen AM**, Boshra SA. Tentatively Identified (UPLC/T-TOF-MS/MS) Compounds in the Extract of Saussurea costus Roots Exhibit In Vivo Hepatoprotection via Modulation of HNF-1 α , Sirtuin-1, C/ebp α , miRNA-34a and miRNA-223. *Molecules*, 28;27(9):2802 (2022).
DOI: [10.3390/molecules27092802](https://doi.org/10.3390/molecules27092802).

67. Salah, AS.M., Hassan, L.A., Fathallaa, **El-ghobashy M.**, Nebsen M. Preparation & characterization of polymyxin B- and histidine-coupled magnetic nanoparticles for purification of biologics from acquired endotoxin contamination. *Beni-Suef Univ J Basic Appl Sci* **11**, 70 (2022).
68. Gamal, Mohammed, Heba-Alla H. Abd-ElSalam, Ibrahim A. Naguib, **Medhat A. Al-Ghobashy**, Hala E. Zaazaa, and M. Abdelkawy. "Green and cost-effective extraction techniques of quercetin from mixture of nutraceuticals with yield analysis via spectrophotometry and high performance liquid chromatograph methods.", *Journal of AOAC International*, 18:qsab071, (2022).
69. **Saad MA, Eissa NM, Ahmed MA, ElMeshad AN, Laible G, Attia AS, Al-Ghobashy MA, Abdelsalam RM, Al-Shorbagy MY.** Nanoformulated Recombinant Human Myelin Basic Protein and Rituximab Modulate Neuronal Perturbations in Experimental Autoimmune Encephalomyelitis in Mice. *Int J Nanomedicine*. 7;17:3967-3987.(2022)
DOI: [10.2147/IJN.S359114](https://doi.org/10.2147/IJN.S359114).
70. El-Safty H, Ismail A, **Abdelsalam RM**, El-Sahar AE, **Saad MA.** Dapagliflozin diminishes memory and cognition impairment in Streptozotocin induced diabetes through its effect on Wnt/ β -Catenin and CREB pathway. *Brain Res Bull.*,181:109-120 (2022)
DOI: [10.1016/j.brainresbull.2022.01.017](https://doi.org/10.1016/j.brainresbull.2022.01.017).
71. **Saad MA, Al-Shorbagy MY, Arab HH.** Targeting the TLR4/NF- κ B Axis and NLRP1/3 Inflammasomes by Rosuvastatin: A Role in Impeding Ovariectomy-Induced Cognitive Decline Neuropathology in Rats. *Mol Neurobiol.*, 59(7):4562-4577(2022).
DOI: [10.1007/s12035-022-02852-0](https://doi.org/10.1007/s12035-022-02852-0).

72. Khalifa M, **Abdelsalam RM**, Safar MM, Zaki HF. Phosphodiesterase (PDE) III inhibitor, Cilostazol, improved memory impairment in aluminum chloride-treated rats: modulation of cAMP/CREB pathway. *Inflammopharmacology*. (2022). Online ahead of print
DOI: [10.1007/s10787-022-01034-7](https://doi.org/10.1007/s10787-022-01034-7).
73. Hussien YA, Mansour DF, Nada SA, Abd El-Rahman SS, **Abdelsalam RM**, Attia AS, El-Tanbouly DM. Linagliptin attenuates thioacetamide-induced hepatic encephalopathy in rats: Modulation of C/EBP- β and CX3CL1/Fractalkine, neuro-inflammation, oxidative stress and behavioral defects. *Life Sci.*, 15;295:120378.(2022)
74. El-Shamarka ME, El-Sahar AE, **Saad MA**, Assaf N, Sayed RH. Inosine attenuates 3-nitropropionic acid-induced Huntington's disease-like symptoms in rats via the activation of the A2AR/BDNF/TrKB/ERK/CREB signaling pathway. *Life Sci.* 2022, 1;300:120569.(2022)
DOI: [10.1016/j.lfs.2022.120569](https://doi.org/10.1016/j.lfs.2022.120569).
75. El-Ghannam MS, **Saad MA**, Nassar NN, El-Yamany MF, El-Bahy AAZ. Linagliptin ameliorates acetic acid-induced colitis via modulating AMPK/SIRT1/PGC-1 α and JAK2/STAT3 signaling pathway in rats. *Toxicol Appl Pharmacol.*, 1;438:115906. (2022)
DOI: [10.1016/j.taap.2022.115906](https://doi.org/10.1016/j.taap.2022.115906)
76. Al-Madhagy SA, Gad SS, Mostafa ES, Angeloni S, **Saad MA**, Sabry OM, Caprioli G, El-Hawary SS. A new arsenal of polyphenols to make Parkinson's disease extinct: HPLC-MS/MS profiling, very interesting MAO-B inhibitory activity and antioxidant activity of *Otostegia fruticosa*. *Nat Prod Res.*, 22:1-6.(2022).
DOI: [10.1080/14786419.2022.2044811](https://doi.org/10.1080/14786419.2022.2044811)

- 77.Elsebaie MM, Nour El-Din HT, Abutaleb NS, Abuelkhir AA, Liang HW, **Attia AS**, Seleem MN, Mayhoub AS. Exploring the structure-activity relationships of diphenylurea as an antibacterial scaffold active against methicillin- and vancomycin-resistant *Staphylococcus aureus*. *Eur J Med Chem.*, 15;234:114204 (2022).
DOI: [10.1016/j.ejmech.2022.114204](https://doi.org/10.1016/j.ejmech.2022.114204).
- 78.Nour El-Din HT, Elsebaie MMn Abutaleb NS, Kotb AM, **Attia AS**, Seleem MN, Mayhoub AS. Expanding the Structure-Activity Relationships of Alkynyl Diphenylurea Scaffold as Promising Antibacterial Agents. *RSC Med. Chem.*, Online ahead of print (2022).
DOI: [10.1039/d2md00351a](https://doi.org/10.1039/d2md00351a)
- 79.Ibrahim S, **Fahim SA**, Tadros SA, Badary OA. Suppressive effects of thymoquinone on the initiation stage of diethylnitrosamine hepatocarcinogenesis in rats. *IJ Biochem Mol Toxicol.* Aug;36(8):e23078. (2022)
DOI: [10.1002/jbt.23078](https://doi.org/10.1002/jbt.23078)
- 80.Motawi TMK, Sadik NAH, Sabry D, **Fahim SA**, Shahin NN.rs62139665 olymorphism in the Promoter Region of EpCAM Is Associated With Hepatitis C Virus-Related Hepatocellular Carcinoma Risk in Egyptians. *Front Oncol.* 5;11:754104. (2022)
- 81.Tadros SA, Attia YM, Maurice NW, **Fahim SA**, Abdelwahed FM, Ibrahim S, Badary OA. Thymoquinone Suppresses Angiogenesis in DEN-Induced Hepatocellular Carcinoma by Targeting miR-1-3p. *Int J Mol Sci.*, Dec 14;23(24):15904. (2022)
DOI: [10.3390/ijms232415904](https://doi.org/10.3390/ijms232415904).

82.Soha Ramadan, Manal M. Sabry, **Muhammed A Saad**, Simone Angeloni, Omar M. Sabry, Giovanni Caprioli & Soheir M. El Zalabani “Dismantling Parkinson’s disease with herbs: MAO-B inhibitory activity and quantification of chemical constituents using HPLC-MS/MS of Egyptian local market plants”, *Natural Product Research*, Epub. Ahead of print, (2022).

DOI: [10.1080/14786419.2021.2013836](https://doi.org/10.1080/14786419.2021.2013836)

83.Mai El Halawany, Randa Latif and **Mohamed H. H. AbouGhaly**. Hemostatic Alginate/Nano-Hydroxyapatite Composite Aerogel Loaded with Tranexamic Acid or the Potential Protection against Alveolar Osteitis. *Pharmaceutics*,14(10), 2255 (2022)

DOI: [10.3390/pharmaceutics14102255](https://doi.org/10.3390/pharmaceutics14102255)

84.Farag MM, Louis MM, Badawy AA, NessemDI, **Abdelmalak NS**. Drotaverine Hydrochloride Superporous Hydrogel Hybrid System: a Gastroretentive Approach for Sustained Drug Delivery and Enhanced Viscoelasticity. *AAPS PharmSciTech*, 23:124 (2022)

DOI: [10.1208/s12249-022-02280-2](https://doi.org/10.1208/s12249-022-02280-2)

85.Marwa Eid Sayyed, Mohamed Abd El-Motaleb, Ismail Taha Ibrahim, Mohamed Ahmed El-Nabarawi, **Mohamed Abdallah Ahmed**, Intranasal administration of ^{99m}Tc-topiramate-loaded phospholipid magnesome potential route for enhanced brain delivery: Characterization, biodistribution, and pharmacokinetic behaviors, *Journal of Drug Delivery Science and Technology*, Volume 69, 2022, 103185, ISSN 1773-2247,

DOI: <https://doi.org/10.1016/j.jddst.2022.103185>.

86.Sayyed, Marwa Eid; El-Motaleb, Mohamed Abd; Ibrahim, Ismail Taha; Rashed, Hassan Medhat; El-Nabarawi, Mohamed Ahmed; **Ahmed, Mohamed Abdallah**. Preparation, characterization, and in vivo biodistribution study of intranasal ¹³¹I-clonazepam-loaded phospholipid magnesome as a promising brain delivery system: Biodistribution and pharmacokinetic behavior of intranasal ¹³¹I-Clonazepam loaded phospholipid magnesome as a potential brain targeting system. *European Jour Pharmaceutical sciences* volume 169; 2022. 106089

87. **Rodayna Atef Shalaby**, Omaima El-Gazayerly, Mohammed Abdallah. Cubosomal Betamethasone-Salicylic Acid Nano Drug Delivery System for Enhanced Management of Scalp Psoriasis. *Int J Nanomedicine*. 13;17:1659-1677 (2022).
DOI: [10.2147/IJN.S345430](https://doi.org/10.2147/IJN.S345430).
88. Hammad RW, Sanad RA, **Abdelmalak NS**, Latif R. Architecting novel multilayer nanosponges for co-administration of two drugs managing high-risk type II diabetes mellitus patients suffering from cardiovascular diseases. *Int J Biol Macromol*. 1;220:1429-1443 (2022)
DOI: [10.1016/j.ijbiomac.2022.09.099](https://doi.org/10.1016/j.ijbiomac.2022.09.099)
89. Rautenberg, Anne T.; Downes, Martin; Kiet, Pham Huy Tuan; **Ashoush, Nermeen**; Dennis, Antonio Rosete; Kim, Kyoo. Evaluating the cost utility of racecadotril in addition to oral rehydration solution versus oral rehydration solution alone for children with acute watery diarrhea in four low middle-income countries: Egypt, Morocco, Philippines and Vietnam. *Journal of Medical Economics*, Volume 25, Issue 1, Pages 274 – 281(2022)
90. Eldehna WM, Al-Rashood ST, Al-Warhi T, Eskandrani RO, Alharbi A, **El Kerdawy AM**. “Novel oxindole/benzofuran hybrids as potential dual CDK2/GSK-3 β inhibitors targeting breast cancer: design, synthesis, biological evaluation, and in silico studies”, *J Enzyme Inhib Med Chem*, **36(1)**, 270-285, (2021).
DOI: [10.1080/14756366.2020.1862101](https://doi.org/10.1080/14756366.2020.1862101).
91. **Ibrahim F. Abo-Elmagd**, Amr M. Mahmoud, **Medhat A. Al-Ghobashy**, Marianne Nebsen, Nesrine S. El Sayed, Shahira Nofal, Sameh H. Soror, Robert Todd, and Salwa A. Elgebaly. Impedimetric Sensors for Cyclocreatine Phosphate Determination in Plasma Based on Electropolymerized Poly(o-phenylenediamine) Molecularly Imprinted Polymers. *ACS Omega* 2021 6 (46), 31282-31291

92. Wadhah Atef Salem, Ehab Farouk Elkady, **Marwa Ahmed Fouad**, Mohammad Abdul-Azim Mohammad. "Analysis of Metformin and Five Gliptins in Counterfeit Herbal Products: Designs of Experiment Screening and Optimization", *Journal of AOAC International*, **104(6)**, 1667–1680, (2021).
DOI: [10.1093/jaoacint/qsab106](https://doi.org/10.1093/jaoacint/qsab106)
93. El-Hussieny, M., El-Sayed, N.F., **Fouad, M.A.**, Ewies, E.F. "Synthesis, biological evaluation and molecular docking of new sulfonamide-based indolinone derivatives as multitargeted kinase inhibitors against leukemia", *Bioorganic Chemistry*, **117**, 105421, (2021)
DOI: [10.1016/j.bioorg.2021.105421](https://doi.org/10.1016/j.bioorg.2021.105421)
94. Abd El-Aal, May A., **Medhat A. Al-Ghobashy**, and Yasser S. El-Saharty. "Preparation and characterization of 96-well microplates coated with molecularly imprinted polymer for determination and biosimilarity assessment of recombinant human erythropoietin.", *Journal of Chromatography A*, **1641**, 462012, (2021), ISSN 0021-9673.
DOI: <https://doi.org/10.1016/j.chroma.2021.462012>
95. Nadim, Ahmed H., May A. Abd El-Aal, **Medhat A. Al-Ghobashy**, and Yasser S. El-Saharty. "Facile imprinted polymer for label-free highly selective potentiometric sensing of proteins: case of recombinant human erythropoietin.", *Analytical and Bioanalytical Chemistry*, **413**, 3611–3623, (2021).
DOI: <https://doi.org/10.1007/s00216-021-03325-4>
96. Nadim, Ahmed H., May A. Abd El-Aal, **Medhat A. Al-Ghobashy**, and Yasser S. El-Saharty. "Optimization of Polydopamine Imprinted Polymer for Label Free Sensitive Potentiometric determination of Proteins: Application to Recombinant Human Erythropoietin Sensing in Different Matrices.", *Microchemical Journal*, **167**, 106333, (2021).

DOI: <https://doi.org/10.1016/j.microc.2021.106333>

97. Mahdally, N. H., George, R. F., Kashef, M. T., **Al-Ghobashy, M.**, Murad, F. E., & Attia, A. S. “Staquorsin: A Novel Staphylococcus aureus Agr-Mediated Quorum Sensing Inhibitor Impairing Virulence in vivo Without Notable Resistance Development”, *Frontiers in microbiology*, **12**, 700494, (2021).
DOI: <https://doi.org/10.3389/fmicb.2021.700494>.

98. Abanoub Mosaad Abdallah, Nadia G. Zaki, Walaa H. Mahmoud, **Ahmed M. El Kerdawy**, Gehad G. Mohamed. “Synthesis, structural characterization, density functional theory calculations, and antimicrobial, anticancer, and antimetastatic properties of nanosized heteroleptic complexes of cocaine/TMEDA with d-block metal ions.” *App. Organometallic. Chem.*, 35: e6441 (2021).
DOI: <https://doi.org/10.1002/aoc.6441>

99. Abdalla R. Mohamed, **Ahmed M. El Kerdawy**, Riham F. George, Hanan H. Georgey, Nagwa M. Abdel Gawad. “Design, synthesis and in silico insights of new 7,8-disubstituted-1,3-dimethyl-1H-purine-2,6(3H,7H)-dione derivatives with potent anticancer and multi-kinase inhibitory activities”, *Bioorganic Chemistry*, **107**, 104569, (2021).
DOI: <https://doi.org/10.1016/j.bioorg.2020.104569>

100. Rasha M. Hassan, Mona E. Aboutabl, Manuela Bozzi, Mohammed F. El-Behairy, **Ahmed M. El Kerdawy**, Beatrice Sampaolese, Claudia Desiderio, Federica Vincenzoni, Francesca Sciandra, Iman A.Y. Ghannam. “Discovery of 4-benzyloxy and 4-(2-phenylethoxy) chalcone fibrate hybrids as novel PPAR α agonists with anti-hyperlipidemic and antioxidant activities: Design, synthesis and in vitro/in vivo biological evaluation”, *Bioorganic Chemistry*, **115**, 105170, (2021).
DOI: [10.1016/j.bioorg.2021.105170](https://doi.org/10.1016/j.bioorg.2021.105170)

101. Heba Ibrahim, A. Abdo, **Ahmed M. El Kerdawy**, A. Sharaf Eldin. “Signal Detection in Pharmacovigilance: A Review of Informatics-driven Approaches for the Discovery of Drug-Drug Interaction Signals in Different Data Sources”, *Artificial Intelligence in the Life Sciences*, **1**, 100005, (2021).
DOI: [10.1016/j.ailsci.2021.100005](https://doi.org/10.1016/j.ailsci.2021.100005)
102. Peter A. Halim, Hanan H. Georgey, Mina Y. George, **Ahmed M. El Kerdawy**, Mona F. Said. “Design and synthesis of novel 4-fluorobenzamide-based derivatives as promising anti-inflammatory and analgesic agents with an enhanced gastric tolerability and COX-inhibitory activity”, *Bioorganic Chemistry*, **115**, 105253, (2021).
DOI: [10.1016/j.bioorg.2021.105253](https://doi.org/10.1016/j.bioorg.2021.105253)
103. Heba Ibrahim, **Ahmed M. El Kerdawy**, A. Abdo, A. Sharaf Eldin “Similarity-based machine learning framework for predicting safety signals of adverse Drug–Drug interactions”, *Informatics in Medicine* *Unlocked*, 100669, (2021).
DOI: [10.1016/j.imu.2021.100699](https://doi.org/10.1016/j.imu.2021.100699)
104. El-Haddad AE, El-Deeb EM, Amer AA, **Saadelddeen AM**, Ahmed FM, Salem MA, Taha HS. “Bioactive Phytoconstituents of Morus Plants exhibiting Numerous Therapeutic Activities”, *Egyptian Journal of Chemistry*, (2021).
DOI: [10.21608/EJCHEM.2021.76688.3788](https://doi.org/10.21608/EJCHEM.2021.76688.3788)
105. El-Mancy, Shereen S., Alaadin E. El-Haddad, Walaa A. Alshareef, **Amr M. Saadelddeen**, Soad Z. El-Emam, and Osama S. Elnahas. "Enhancement of Antimicrobial and Antiproliferative Activities of Standardized Frankincense Extract Using Optimized Self-Nanoemulsifying Delivery System", *Scientia Pharmaceutica*, **89(3)**, 36, (2021).
DOI: <https://doi.org/10.3390/scipharm89030036>

106. Darwish, Amira Mohamed Galal, Hebatallah H. Abo Nahas, Yasmin H. Korra, **Alaa A. Osman**, Wedad M. El-Kholy, Maria Reyes-Córdova, Essa M. Saied, and Ahmed M. Abdel-Azeem. "Fungal Lipases: Insights into Molecular Structures and Biotechnological Applications in Medicine and Dairy Industry" *Industrially Important Fungi for Sustainable Development*, 461-514, Springer, Cham, (2021).
DOI: https://doi.org/10.1007/978-3-030-85603-8_13
107. Saied EM, El-Maradny YA, **Osman AA**, Darwish AMG, Abo Nahas HH, Niedbała G, Piekutowska M, Abdel-Rahman MA, Balbool BA, Abdel-Azeem AM. "A Comprehensive Review about the Molecular Structure of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): Insights into Natural Products against COVID-19" *Pharmaceutics*, **13(11)**, 1759, (2021).
DOI: <https://doi.org/10.3390/pharmaceutics13111759>
108. El Azab, Islam H., Essa M. Saied, **Alaa A. Osman**, Amir E. Mehana, Hosam A. Saad, and Nadia AA Elkanzi. "Novel N-bridged pyrazole-1-carbothioamides with potential antiproliferative activity: design, synthesis, in vitro and in silico studies" *Future Medicinal Chemistry*, **13(20)**, 1743-1766, (2021).
DOI: <https://doi.org/10.4155/fmc-2021-0066>
109. Sara M. Shatat, **Medhat A. Al-Ghobashy**, Faten A. Fathalla, Samah S. Abbas, Basma M. Eltanany, Coupling of Trastuzumab chromatographic profiling with machine learning tools: A complementary approach for biosimilarity and stability assessment. *Journal of Chromatography B*, Volume 1184, 2021. 122976
110. Elhosseiny, Noha M., Tamer M. Samir, Aliaa A. Ali, Amani A. El-Kholy, and **Ahmed S. Attia**. "Development of an Immunochromatographic Strip Using Conjugated Gold Nanoparticles for the Rapid Detection of *Klebsiella pneumoniae* Causing Neonatal Sepsis" *Pharmaceutics*, **13(8)**, 1141, (2021).

DOI: <https://doi.org/10.3390/pharmaceutics13081141>

111. **Muhammed A.Saad**, Maha A.E. Ahmed, Norhan N.Elbadawy, Noha F.Abdelkader “Nano-ivabradine averts behavioral anomalies in Huntington's disease rat model via modulating Rhes/m-tor pathway”, *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **111**, (2021), 110368.

DOI: <https://doi.org/10.1016/j.pnpbp.2021.110368>

112. El-Yamany, Muhammed F., Eman S. Zaki, Sherif A. Shaltout, and **Muhammed A. Saad**. "Bone marrow mononuclear cells boosts anti-cytogenetical aberration effect of N-Acetylcysteine and α -lipoic acid in rat's liver and bone marrow: Implication of oxidative and inflammatory pathways", *Toxicology Mechanisms and Methods*, 1-13, (2021).

DOI: <https://doi.org/10.1080/15376516.2021.1906370>

113. Hany H. Arab, Muhammad Y. Al-Shorbagy, **Muhammed A. Saad**. “Activation of autophagy and suppression of apoptosis by dapagliflozin attenuates experimental inflammatory bowel disease in rats: Targeting AMPK/mTOR, HMGB1/RAGE and Nrf2/HO-1 pathways”, *Chemico-Biological Interactions*, **335**, 109368, (2021), ISSN 0009-2797.

DOI: <https://doi.org/10.1016/j.cbi.2021.109368>

114. **Muhammed A. Saad**, Muhammad A. Eltarzy, **Rania M. Abdel Salam**, Maha A.E. Ahmed. “Liraglutide mends cognitive impairment by averting Notch signaling pathway overexpression in a rat model of polycystic ovary syndrome”, *Life Sciences*, **265**, 118731, (2021), ISSN 0024-3205.

DOI: <https://doi.org/10.1016/j.lfs.2020.118731>

115. **Saad, Muhammad AE**, Mohamed IM Fahmy, Rabab H. Sayed, Muhammad F. El-Yamany, Reham El-Naggar , Ahmed AE Hegazy, and **Muhammad Al-Shorbagy**. "Eprosartan: A closer insight into its neuroprotective activity in rats with focal cerebral ischemia–reperfusion injury.", *Journal of Biochemical and Molecular Toxicology*, (2021)

DOI: <https://doi.org/10.1002/jbt.22796>

116. Shouman MM, **Abdelsalam RM**, Tawfick MM, Kenawy SA, El-Naa MM. Antisense Tissue Factor Oligodeoxynucleotides Protected Diethyl Nitrosamine/Carbon Tetrachloride-Induced Liver Fibrosis Through Toll Like Receptor4-Tissue Factor-Protease Activated Receptor1 Pathway. *Front Pharmacol.* 2021 May 11;12:676608. **DOI:** [10.3389/fphar.2021.676608](https://doi.org/10.3389/fphar.2021.676608). PMID: 34045968; PMCID: PMC8144514
117. Hagar B. Abo-Zalam , Ezzeldein S. El-Denshary, **Rania M. Abdelsalam**, Islam A. Khalil, Mahmoud M. Khattab, and Mohamed A. Hamzawy. "Therapeutic advancement of simvastatin-loaded solid lipid nanoparticles (SV-SLNs) in treatment of hyperlipidemia and attenuating hepatotoxicity, myopathy and apoptosis: Comprehensive study.", *Biomedicine & Pharmacotherapy*, **139**, 111494, (2021). **DOI:** <https://doi.org/10.1016/j.biopha.2021.111494>
118. Hagar B. Abo-Zalam , **Rania M. Abdelsalam**, Rehab F. Abdel-Rahman, Mohamed F. Abd-Ellah, Mahmoud M. Khattab "In Vivo Investigation of the Ameliorating Effect of Tempol against MIA-Induced Knee Osteoarthritis in Rats: Involvement of TGF- β 1/SMAD3/NOX4 Cue." *Molecules.* 19;26(22):6993 (2021), **ISSN:** 1420-3049. **DOI:** <https://doi.org/10.3390/molecules26226993>.
119. Radwa N. Muhammad, Lamiaa A. Ahmed, **Rania M. AbdelSalam**, Kawkab A. Ahmed, Amina S. Attia. "Crosstalk Among NLRP3 Inflammasome, ET B R Signaling, and miRNAs in Stress-Induced Depression-Like Behavior: a Modulatory Role for SGLT2 Inhibitors." *Neurotherapeutics*. Online ahead of print (2021). **ISSN:** 1933-7213 (print); 1878-7479 (web). **DOI:** <https://doi.org/10.1007/s13311-021-01140-4>.

120. Amer MA, Wasfi R, **Attia AS**, Ramadan MA. “Indole Derivatives Obtained from Egyptian *Enterobacter* sp. Soil Isolates Exhibit Antivirulence Activities against Uropathogenic *Proteus mirabilis*”, *Antibiotics*, **10(4)**, 363, (2021).
DOI: <https://doi.org/10.3390/antibiotics10040363>
121. Samar M. Shawki, **Mohammed A. Saad**, Rania M. Rahmo, Walaa Wadie and Hanan S. El-Abhar, “Liraglutide Improves Cognitive and Neuronal Function in 3-NP Rat Model of Huntington’s Disease”, *Frontiers in pharmacology*, Epub. Ahead of print, (2021).
DOI: <https://doi.org/10.3389/fphar.2021.731483>
122. Rofida A. Saleh, Tarek F. Eissa, Dalaal M. Abdallah, **Muhammed A. Saad**, Hanan S. El- Abhar. “Peganum harmala enhanced GLP-1 and restored insulin signaling to alleviate AIC₃-induced Alzheimer-like pathology model.” *Scientific reports*, **11**, 12040, (2021).
DOI: <https://doi.org/10.1038/s41598-021-90545-4>.
123. Doaa Fathi, Ahmed I.Abulsoud, **Muhammed A.Saad**, Noha N.Nassar, Mina M.Maksimose, Sherine M.Rizk, Mahmoud A.Senousy “Agomelatine attenuates alcohol craving and withdrawal symptoms by modulating the Notch1 signaling pathway in rats”, *Life Sciences*, **284**, (2021), 119904.
DOI: <https://doi.org/10.1016/j.lfs.2021.119904>
124. Amr M. Emam, **Muhammad A. Saad**, Naglaa A. Ahmed, Hala F. Zaki. “Vortioxetine mitigates neuronal damage by restricting PERK/eIF2 α /ATF4/CHOP signaling pathway in rats subjected to focal cerebral ischemia-reperfusion”, *Life Sciences*, **283**, 119865, (2021), ISSN 0024-3205.
DOI: <https://doi.org/10.1016/j.lfs.2021.119865>.

125. Abdelhamid, Y. A., Elyamany, M. F., **Al-Shorbagy, M. Y.** & Badary, O. A. Effects of TNF- α antagonist infliximab on fructose-induced metabolic syndrome in rats. *Hum. Exp. Toxicol.* 40, 801–811 (2021).
126. **Nageeb El-Helaly, S.**; Abd-Elrasheed, E.; Salim, S.A.; Fahmy, R.H.; Salah, S.; EL-Ashmoony, M.M. “Green Nanotechnology in the Formulation of a Novel Solid Dispersed Multilayered Core-Sheath Raloxifene-Loaded Nanofibrous Buccal Film; In Vitro and In Vivo Characterization”, *Pharmaceutics*, **13**, 474, (2021).
DOI: <https://doi.org/10.3390/pharmaceutics13040474>
127. Tawfik, M.A., Mohamed, M.I., Tadros, M.I., **El-Helaly S.N.** “Low-Frequency Sonophoresis as an Active Approach to Potentiate the Transdermal Delivery of Agomelatine-Loaded Novasomes: Design, Optimization, and Pharmacokinetic Profiling in Rabbits.” *AAPS PharmSciTech* **22**, 261 (2021).
DOI: <https://doi.org/10.1208/s12249-021-02147-y>
128. **Mohamed Abdallah Ahmed**, Wedian Younis Abdelgawad, Mary Kamal Gad, Magdy Ibrahim Mohamed. “A novel approach for the treatment of oral ulcerative lesion using mucoadhesive proniosome gel”, *Journal of Drug Delivery Science and Technology*, 102460, (2021), ISSN 1773-2247.
DOI: <https://doi.org/10.1016/j.jddst.2021.102460>.
129. A. Ramadan, E.B. Basalious and **M. Abdallah.** “Industrial application of QbD and NIR chemometric models in quality improvement of immediate release tablets”, *Saudi Pharmaceutical Journal*, (2021), ISSN 1319-0164.
DOI: <https://doi.org/10.1016/j.jsps.2021.04.012>

130. Farag MM, **Abd El Malak NS**, Yehia SA, **Ahmed MA**. “Hyaluronic Acid Conjugated Metformin-Phospholipid Sonocomplex: A Biphasic Complexation Approach to Correct Hypoxic Tumour Microenvironment.”, *Int J Nanomedicine.*, **16**, 1005-1019, (2021).
DOI: [10.2147/IJN.S297634](https://doi.org/10.2147/IJN.S297634)
131. Abdelmonem R, Elhabal SF, **Abdelmalak NS**, El-Nabarawi MA, Teaima MH. “Formulation and Characterization of Acetazolamide/Carvedilol Niosomal Gel for Glaucoma Treatment: In Vitro, and In Vivo Study.”, *Pharmaceutics*, **13(2)**, 221, (2021).
DOI: <https://doi.org/10.3390/pharmaceutics13020221>
132. S. Mowaka, **N. Ashoush**, M. Mariam, M. Bassam. Investigation of pharmacokinetic parameters of trelagliptin in egyptian volunteers using sensitive LC-MS/MS: a comparative study with a Japanese population. *J. Anal. Methods Chem.*, 2021 (2021), pp. 1-9,
DOI: [10.1155/2021/9664099](https://doi.org/10.1155/2021/9664099)
133. Ehab M. Gedawy, Asmaa E. Kassab, **Ahmed M. El Kerdawy**. “Design, synthesis and biological evaluation of novel pyrazole sulfonamide derivatives as dual COX-2/5-LOX inhibitors”, *European Journal of Medicinal Chemistry*, **189**, 112066, (2020), ISSN 0223-5234.
DOI: <https://doi.org/10.1016/j.ejmech.2020.112066>.
134. Riham F. George, Manal Kandeel, Dina Y. El-Ansary, **Ahmed M. El Kerdawy**. “Some 1,3,5-trisubstituted pyrazoline derivatives targeting breast cancer: Design, synthesis, cytotoxic activity, EGFR inhibition and molecular docking”, *Bioorganic Chemistry*, **99**, 103780, (2020), ISSN 0045-2068.
DOI: <https://doi.org/10.1016/j.bioorg.2020.103780>.

135. Osman SM, Ayoub NA, Hafez SA, Ibrahim HA, El Raey MA, El-Emam SZ, Seada AA, **Saadeldeen AM**. “Aldose reductase inhibitor form *Cassia glauca*: A comparative study of cytotoxic activity with Ag nanoparticles (NPs) and molecular docking evaluation”, *PLoS ONE*, **15(10)**, e0240856, (2020).
DOI: <https://doi.org/10.1371/journal.pone.0240856>.
136. Trabik, Yossra A., Eman M. Moenes, **Medhat A. Al-Ghobashy**, Marianne Nebsen, and Miriam F. Ayad. "Analytical comparability study of anti-CD20 monoclonal antibodies rituximab and obinutuzumab using a stability-indicating orthogonal testing protocol: Effect of structural optimization and glycoengineering.", *Journal of Chromatography B*, **1159**, 122359, (2020), ISSN 1570-0232.
DOI: <https://doi.org/10.1016/j.jchromb.2020.122359>.
137. Mohamed, Hadeer G., **Medhat A. Al-Ghobashy**, Mervat A. Fouad, and Hala S. Zaazaa. "Quality Assessment of Lactoferrin in some Marketed Nutraceuticals Derived from Milk using Validated Analytical Methods.", *ChemistrySelect*, **5(46)**, 14816-14825, (2020).
DOI: <https://doi.org/10.1002/slct.202003681>.
138. Nadia G. Zaki, Walaa H. Mahmoud, **Ahmed M. El Kerdawy**, Abanoub Abdullah, Gehad G. Mohamed. “Structural Characterization, Thermal Analyses, Antiproliferative and Antimicrobial Activity of Cocaine Complexes with Mn(II) and Cu(II)”, *Egyptian Journal of Chemistry*, **63(5)**, 1857-1868, (2020).
DOI: [10.21608/ejchem.2019.16748.2019](https://doi.org/10.21608/ejchem.2019.16748.2019)

139. Nadia G. Zaki, Walaa H. Mahmoud, **Ahmed M. El Kerdawy**, Abanoub Mosaad Abdallah, Gehad G. Mohamed. “Heteroleptic complexes of cocaine/TMEDA with some f block metals: Synthesis, DFT studies, spectral, thermal, cytotoxicity and antimetastatic properties”, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **229**, 117938, (2020), ISSN 1386-1425. DOI: <https://doi.org/10.1016/j.saa.2019.117938>.
140. Heba T. Abdel-Mohsen, **Ahmed M. El Kerdawy**, Mohamed A. Omar, Emanuela Berrino, Ahmed S. Abdelsamie, Hoda I. El Diwani, Claudiu T. Supuran. “New thiopyrimidine-benzenesulfonamide conjugates as selective carbonic anhydrase II inhibitors: synthesis, in vitro biological evaluation, and molecular docking studies”, *Bioorganic & Medicinal Chemistry*, **28(5)**, 115329, (2020), ISSN 0968-0896. DOI: <https://doi.org/10.1016/j.bmc.2020.115329>.
141. Zaki, N.G., Mahmoud, W.H., **El Kerdawy, A.M. et al.** “Structural characterization, thermal, DFT, cytotoxicity, and antimetastatic properties of cocaine complexes with La(III), Er(III), and Yb(III)”, *Res Chem Intermed*, **46**, 3193–3216, (2020). DOI: <https://doi.org/10.1007/s11164-020-04146-3>.
142. Abdel-Mohsen HT, Abd El-Meguid EA, **El Kerdawy AM**, Mahmoud AEE, Ali MM. “Design, synthesis, and molecular docking of novel 2-arylbenzothiazole multiangiokinase inhibitors targeting breast cancer”, *Arch Pharm (Weinheim)*, **353(4)**, e1900340, (2020). DOI: [10.1002/ardp.201900340](https://doi.org/10.1002/ardp.201900340).
143. Heba Abdelrasheed Allam, Enayat E. Aly, Ahmed K.B.A.W. Farouk, **Ahmed M. El Kerdawy**, Essam Rashwan, Safinaz E.S. Abbass. “Design and Synthesis of some new 2,4,6-trisubstituted quinazoline EGFR inhibitors as targeted anticancer agents”, *Bioorganic Chemistry*, **98**, 103726, (2020), ISSN 0045-2068. DOI: <https://doi.org/10.1016/j.bioorg.2020.103726>.

144. Abdel-Mohsen HT, Abdullaziz MA, **El Kerdawy AM**, Ragab FAF, Flanagan KJ, Mahmoud AEE, Ali MM, El Diwani HI, Senge MO. “Targeting Receptor Tyrosine Kinase VEGFR-2 in Hepatocellular Cancer: Rational Design, Synthesis and Biological Evaluation of 1,2-Disubstituted Benzimidazoles”, *Molecules*, **25(4)**, 770, (2020).

DOI: <https://doi.org/10.3390/molecules25040770>.

145. Mohammad M. Al-Sanea, Ahmed Elkamhawy, Sora Paik, Kyeong Lee, **Ahmed M. El Kerdawy**, Bukhari Syed Nasir Abbas, Eun Joo Roh, Wagdy M. Eldehna, Heba A.H. Elshemy, Rania B Bakr, Ibrahim Ali Farahat, Abdulaziz I. Alzarea, Sami I. Alzarea, Khalid S. Alharbi, Mohamed A. Abdelgawad. “Sulfonamide-based 4-anilinoquinoline derivatives as novel dual Aurora kinase (AURKA/B) inhibitors: Synthesis, biological evaluation and in silico insights”, *Bioorganic & Medicinal Chemistry*, **28(13)**, 115525, (2020), ISSN 0968-0896.

DOI: <https://doi.org/10.1016/j.bmc.2020.115525>

146. Al-Warhi T, **El Kerdawy AM**, Aljaeed N, Ismael OE, Ayyad RR, Eldehna WM, Abdel-Aziz HA, Al-Ansary GH. “Synthesis, Biological Evaluation and In Silico Studies of Certain Oxindole–Indole Conjugates as Anticancer CDK Inhibitors”, *Molecules*, **25(9)**, 2031, (2020).

DOI: <https://doi.org/10.3390/molecules25092031>.

147. Ayman E. El-Sahar, Alyasaa A. Rastanawi, Muhammed F. El-Yamany, **Muhammed A. Saad**. “Dapagliflozin improves behavioral dysfunction of Huntington's disease in rats via inhibiting apoptosis-related glycolysis”, *Life Sciences*, **257**, 118076, (2020), ISSN 0024-3205.

DOI: <https://doi.org/10.1016/j.lfs.2020.118076>.

148. Hany H. Arab, **Muhammed A. Saad**, Ayman E. El-Sahar, **Muhammad Y. Al-Shorbagy**. “Mechanistic perspective of morin protection against ketoprofen-induced gastric mucosal injury: Targeting HMGB1/RAGE/NF- κ B, DJ-1/Nrf2/HO-1 and PI3K/mTOR pathways”, *Archives of Biochemistry and Biophysics*, **693**, 108552, (2020), ISSN 0003-9861.
DOI: <https://doi.org/10.1016/j.abb.2020.108552>
149. **Saad MAE**, Fahmy MIM, **Al-Shorbagy M**, Assaf N, Hegazy AAE, El-Yamany MF. “Nateglinide Exerts Neuroprotective Effects via Downregulation of HIF-1 α /TIM-3 Inflammatory Pathway and Promotion of Caveolin-1 Expression in the Rat's Hippocampus Subjected to Focal Cerebral Ischemia/Reperfusion Injury”, *Inflammation*, **43(2)**, 401-416, (2020).
DOI: [10.1007/s10753-019-01154-3](https://doi.org/10.1007/s10753-019-01154-3).
150. D.A. Zaky, D.M. Abouelfadl, N.N. Nasser, D.M. Abdallah, **M.Y.Al-Shorbagy**. The paradox of dipeptidyl peptidase IV inhibition in enterocytic differentiation and epithelial-mesenchymal transition in rat cholestatic sepsis *Toxicol. Appl. Pharmacol.*, 394 (2020)
DOI: [10.1016/j.taap.2020.114956](https://doi.org/10.1016/j.taap.2020.114956)
151. Nour El-Din HT, Elhosseiny NM, El-Gendy MA, Mahmoud AA, **Hussein MMM**, Attia AS. “A Rapid Lysostaphin Production Approach and a Convenient Novel Lysostaphin Loaded Nano-emulgel; As a Sustainable Low-Cost Methicillin-resistant Staphylococcus aureus Combating Platform”, *Biomolecules*. **10(3)**, 435, (2020).
DOI: <https://doi.org/10.3390/biom10030435>
152. Rasha R. Yossef, Mohamed F. Al-Yamany, **Muhammed A. Saad**, Ayman E. El-Sahar. “Neuroprotective effects of vildagliptin on drug induced Alzheimer's disease in rats with metabolic syndrome: Role of hippocampal klotho and AKT signaling pathways”, *European Journal of Pharmacology*, **889**, 173612, (2020), ISSN 0014-2999.
DOI: <https://doi.org/10.1016/j.ejphar.2020.173612>

153. Hadir Farouk, **Muhammed A. Saad**, Sawsan S. Mahmoud, Mohammed F. El-Yamany, Ola A. Sharaf, Rania F. Ahmed, Ezz E. El-Denshary. “Effect of (+) and (-) hydroxycitric acid stereo-isomers present in natural products in counteracting insulin resistance”, *Egyptian Journal of Chemistry*, **63(11)**, 4341-4354, (2020).
DOI: [10.21608/ejchem.2020.25054.2493](https://doi.org/10.21608/ejchem.2020.25054.2493)
154. Hebatullah S. Helmy, Mahmoud A. Senousy, Ayman E. El-Sahar, Rabab H. Sayed, **Muhammed A. Saad**, Eman M. Elbaz. “Aberrations of miR-126-3p, miR-181a and sirtuin1 network mediate Di-(2-ethylhexyl) phthalate-induced testicular damage in rats: The protective role of hesperidin”, *Toxicology*, **433–434**, 152406, (2020).
DOI: <https://doi.org/10.1016/j.tox.2020.152406>
155. Yahia, Haneen; Hassan, Azza; El-Ansary, Mona R.; **Al-Shorbagy, Muhammad Y.**; El-Yamany, Mohamed. IL-6/STAT3 and adipokine modulation using tocilizumab in rats with fructose-induced metabolic syndrome. *Naunyn-Schmiedeberg’s Arch. Pharmacol.* 2020; 393: 2279-2292
156. Sandy N. Aziz, Alia A. Badawy, Demiana I. Nessem, **Nevine S. Abd El Malak**. “Promising nanoparticulate system for topical delivery of diphenhydramine hydrochloride: In-vitro and in-vivo evaluation”, *Journal of Drug Delivery Science and Technology*, **55**, 101454, (2020).
DOI: <https://doi.org/10.1016/j.jddst.2019.101454>
157. Louis, Mina M., Alia A. Badawy, Demiana I. Nessem, and **Nevine S. Abd Elmalak**. "Drotaverine hydrochloride gastroretentive floating mini-tablets: Formulation, in-vitro and in-vivo evaluation.", *Journal of Drug Delivery Science and Technology*, **57**, 101733, (2020), ISSN 1773-2247.
DOI: <https://doi.org/10.1016/j.jddst.2020.101733>

158. Reham Waheed Hammad, Rania Abdel-Basset Sanad, **Nevine Shawky Abdelmalak**, Faisal A. Torad, Randa Latif. “New intranasal cross-linked mosapride xyloglucan pluronics micelles (MOS-XPMS) for reflux esophagitis disease: In-vitro optimization and improved therapeutic efficacy”, *Journal of Advanced Research*, **23**, 83-94, (2020).
DOI: <https://doi.org/10.1016/j.jare.2020.01.013>.
159. Farag, Michael M., **Nevine S. Abd El Malak**, Soad A. Yehia, and Mohammed A. Ahmed. "Sonocomplexation as an effective tool to enhance the antitumorigenic effect of metformin: Preparation, in vitro characterization, molecular dynamic simulation & MiaPaCa-2 cell line hypoxia evaluation.", *Journal of Drug Delivery Science and Technology*, **59**, 101968, (2020), ISSN 1773-2247.
DOI: <https://doi.org/10.1016/j.jddst.2020.101968>
160. Omar NE, El-Fass KA, Abushouk AI, **Elbaghdady N**, Barakat AEM, Noreldin AE, Johar D, Yassin M, Hamad A, Elazzazy S, Dermime S. “Diagnosis and Management of Hematological Adverse Events Induced by Immune Checkpoint Inhibitors: A Systematic Review”, *Front Immunol.*, **11**, 1354, (2020).
DOI: [10.3389/fimmu.2020.01354](https://doi.org/10.3389/fimmu.2020.01354).
161. **Al-Ghobashy MA**, Nadim AH, El-Sayed GM, Nebsen M. “Label-Free Potentiometric Ion Flux Immunosensor for Determination of Recombinant Human Myelin Basic Protein: Application to Downstream Purification from Transgenic Milk”, *ACS Sens.*, **4(2)**, 413-420, (2019).
DOI: [10.1021/acssensors.8b01315](https://doi.org/10.1021/acssensors.8b01315).
162. Iman A.Y. Ghannam, Eman A. Abd El-Meguid, Islam H. Ali, Donia H. Sheir, **Ahmed M. El Kerdawy**. “Novel 2-arylbenzothiazole DNA gyrase inhibitors: Synthesis, antimicrobial evaluation, QSAR and molecular docking studies”, *Bioorganic Chemistry*, **93**, 103373, (2019).
DOI: [10.1016/j.bioorg.2019.103373](https://doi.org/10.1016/j.bioorg.2019.103373).

163. El Kerdawy, A.M., Osman, A.A. & Zaater, M.A. “Receptor-based pharmacophore modeling, virtual screening, and molecular docking studies for the discovery of novel GSK-3 β inhibitors”, *J Mol Model*, **25(6)**, 171, (2019)
164. Shendy, A.H., Eltanany, B.M., Al-Ghobashy, M.A. *et al.* “Coupling of GC-MS/MS to Principal Component Analysis for Assessment of Matrix Effect: Efficient Determination of Ultra-Low Levels of Pesticide Residues in Some Functional Foods”, *Food Anal. Methods*, **12**, 2870–2885, (2019).
DOI: <https://doi.org/10.1007/s12161-019-01643-z>.
165. El-Sayed, Ghada M., Medhat A. Al-Ghobashy, Ali K. Attia, and Samah M. Kamal. "Nanoparticle-Enhanced Potentiometric Ion-Selective Electrodes for Therapeutic Drug Monitoring of Linezolid.", *Journal of The Electrochemical Society*, **166 (14)**, 1-9, (2019).
DOI: [10.1149/2.1221913jes](https://doi.org/10.1149/2.1221913jes).
166. Hassan LA, Al-Ghobashy MA, Abbas SS. “Evaluation of the pattern and kinetics of degradation of adalimumab using a stability-indicating orthogonal testing protocol”, *Biomed Chromatogr.*, **33(12)**, e4676, (2019).
DOI: [10.1002/bmc.4676](https://doi.org/10.1002/bmc.4676)
167. Hassan, Lamiaa A., Sara M Shatat, Basma M Eltanany, Medhat A Al-Ghobashy, and Samah S Abbas. "Stability and biosimilarity assessment of infliximab using an orthogonal testing protocol and statistically-guided interpretation of peptide mapping", *Analytical methods*, **11 (25)**, 3198-3211, (2019).
DOI: [10.1039/c9ay00903e](https://doi.org/10.1039/c9ay00903e).
168. Ibrahim, F.A., Al-Ghobashy, M.A. & Abo-Elmagd, I.F. “Energy-efficient carbon-doped titanium dioxide nanoparticles: synthesis, characterization, and catalytic properties under visible LED irradiation for degradation of Gemifloxacin”, *SN Appl. Sci.*, **1**, 631, (2019).

DOI: [10.1007/s42452-019-0644-8](https://doi.org/10.1007/s42452-019-0644-8)

169. Heba T. Abdel-Mohsen, Mohamed A. Omar, **Ahmed M. El Kerdawy**, Abeer E.E. Mahmoud, Mamdouh M. Ali, Hoda I. El Diwani. “Novel potent substituted 4-amino-2-thiopyrimidines as dual VEGFR-2 and BRAF kinase inhibitors”, *European Journal of Medicinal Chemistry*, **179**, 707-722, (2019), ISSN 0223-5234. DOI: [10.1016/j.ejmech.2019.06.063](https://doi.org/10.1016/j.ejmech.2019.06.063)
170. Somaia S. Abd El-Karim, Yasmin M. Syam, **Ahmed M. El Kerdawy**, Tamer M. Abdelghany. “New thiazol-hydrazono-coumarin hybrids targeting human cervical cancer cells: Synthesis, CDK2 inhibition, QSAR and molecular docking studies”, *Bioorganic Chemistry*, **86**, 80-96, (2019), ISSN 0045-2068. DOI: [10.1016/j.bioorg.2019.01.026](https://doi.org/10.1016/j.bioorg.2019.01.026).
171. Wagdy M. Eldehna, **Ahmed M. El Kerdawy**, Ghada H. Al-Ansary, Sara T. Al-Rashood, Mamdouh M. Ali, Abeer E. Mahmoud. “Type IIA - Type IIB protein tyrosine kinase inhibitors hybridization as an efficient approach for potent multikinase inhibitor development: Design, synthesis, anti-proliferative activity, multikinase inhibitory activity and molecular modeling of novel indolinone-based ureides and amides”, *European Journal of Medicinal Chemistry*, **163**, 37-53, (2019), ISSN 0223-5234. DOI: [10.1016/j.ejmech.2018.11.061](https://doi.org/10.1016/j.ejmech.2018.11.061)
172. Muhammed A. Saad, Ayman E. El-Sahhar, Hany H. Arab, **Muhammad Y. Al-Shorbagy**. “Nicorandil abates arthritic perturbations induced by complete Freund's adjuvant in rats via conquering TLR4-MyD88-TRAF6 signaling pathway”, *Life Sciences*, **218**, 284-291, (2019), ISSN 0024-3205. DOI: <https://doi.org/10.1016/j.lfs.2019.01.002>

173. **Noha Abdel-Rahman**, Maha H. Sharawy, Nirmeen Megahed, Mohammed S. El-Awady. “Vitamin D3 abates BDL-induced cholestasis and fibrosis in rats via regulating Hedgehog pathway”, *Toxicology and Applied Pharmacology*, **380**, 114697, (2019), ISSN 0041-008X.
DOI: <https://doi.org/10.1016/j.taap.2019.114697>.
174. Radwan, A., El-Lakkany, N. M., William, S., El-Feky, G. S., **Al-Shorbagy, M. Y.**, Saleh, S., & Botros, S. A. “Novel praziquantel solid lipid nanoparticle formulation shows enhanced bioavailability and antischistosomal efficacy against murine *S. mansoni* infection”, *Parasites Vectors*, **12(1)**, 304, (2019).
DOI: <https://doi.org/10.1186/s13071-019-3563-z>.
175. Choucry, A.M., **Al-Shorbagy, M.Y.**, Attia, A.S. *et al.* “Pharmacological Manipulation of Trk, p75NTR, and NGF Balance Restores Memory Deficit in Global Ischemia/Reperfusion Model in Rats”, *J Mol Neurosci*, **68(1)**, 78–90, (2019).
DOI: <https://doi.org/10.1007/s12031-019-01284-1>.
176. Hassan NF, Nada SA, Hassan A, El-Ansary MR, **Al-Shorbagy MY**, Abdelsalam RM. “Saroglitazar Deactivates the Hepatic LPS/TLR4 Signaling Pathway and Ameliorates Adipocyte Dysfunction in Rats with High-Fat Emulsion/LPS Model-Induced Non-alcoholic Steatohepatitis”, *Inflammation*, **42(3)**, 1056-1070, (2019).
177. Eman M. Elbaz, Hebatullah S. Helmy, Ayman E. El-Sahar, **Muhammed A. Saad**, Rabab H. Sayed. “Lercanidipine boosts the efficacy of mesenchymal stem cell therapy in 3-NP-induced Huntington's disease model rats via modulation of the calcium/calcieneurin/NFATc4 and Wnt/ β -catenin signalling pathways”, *Neurochemistry International*, **131**, 104548, (2019), ISSN 0197-0186.

DOI: <https://doi.org/10.1016/j.neuint.2019.104548>.

178. **Medhat A. Al-Ghobashy**, Samah M. Kamal, Ghada M. El-Sayed, Ali K. Attia, Mohamed Nagy, Ahmed ElZeiny, Marwa T. Elrakaiby, Mohammed M. Nooh, Maggie Abbassi, Ramy K. Aziz. “Determination of voriconazole and co-administered drugs in plasma of pediatric cancer patients using UPLC-MS/MS: A key step towards personalized therapeutics”, *Journal of Chromatography B*, **1092**, 489-498, (2018), ISSN 1570-0232.
DOI: [10.1016/j.jchromb.2018.06.043](https://doi.org/10.1016/j.jchromb.2018.06.043)
179. Marwa A. Fouad, Enas H. Tolba, Manal A. El-Shal, **Ahmed M. El Kerdawy**. “QSRR modeling for the chromatographic retention behavior of some β -lactam antibiotics using forward and firefly variable selection algorithms coupled with multiple linear regression”, *Journal of Chromatography A*, **1549**, 51-62, (2018), ISSN 0021-9673.
DOI: [10.1016/j.chroma.2018.03.042](https://doi.org/10.1016/j.chroma.2018.03.042).
180. Attallah, O.A., **Al-Ghobashy, M.A.**, Nebsen, M. *et al.* “Assessment of pectin-coated magnetite nanoparticles in low-energy water desalination applications”, *Environ Sci Pollut Res*, **25**, 18476–18483 (2018).
DOI: [10.1007/s11356-018-2060-9](https://doi.org/10.1007/s11356-018-2060-9).
181. Olivia A. Attallah, **Medhat A. Al-Ghobashy**, Ahmed Taha Ayoub, Marianne Nebsen. “Magnetic molecularly imprinted polymer nanoparticles for simultaneous extraction and determination of 6-mercaptopurine and its active metabolite thioguanine in human plasma”, *Journal of Chromatography A*, **1561**, 28-38, (2018), ISSN 0021-9673.
DOI: [10.1016/j.chroma.2018.05.038](https://doi.org/10.1016/j.chroma.2018.05.038)

182. Attallah OA, **Al-Ghobashy MA**, Ayoub AT, Tuszynski JA, Nebsen M. “Computer-aided design of magnetic molecularly imprinted polymer nanoparticles for solid-phase extraction and determination of levetiracetam in human plasma”, *Rsc Advances*, **8(26)**, 14280-92, (2018).
DOI: [10.1039/C8RA02379D](https://doi.org/10.1039/C8RA02379D)
183. Ali K. Attia, **Medhat A. Al-Ghobashy**, Ghada M. El-Sayed, Samah M. Kamal. “Voltammetric monitoring of linezolid, meropenem and theophylline in plasma”, *Analytical Biochemistry*, **545**, 54-64, (2018), ISSN 0003-2697.
DOI: [10.1016/j.ab.2018.01.0093](https://doi.org/10.1016/j.ab.2018.01.0093)
184. Hoda E. Mohamed, Abeer A. Mohamed, **Medhat A. Al-Ghobashy**, Faten A. Fathalla, Samah S. Abbas. “Stability assessment of antibody-drug conjugate Trastuzumab emtansine in comparison to parent monoclonal antibody using orthogonal testing protocol”, *Journal of Pharmaceutical and Biomedical Analysis*, **150**, 268-277, (2018), ISSN 0731-7085.
DOI: [10.1016/j.jpba.2017.12.022](https://doi.org/10.1016/j.jpba.2017.12.022).
185. Sara M. Shatat, Basma M. Eltanany, Abeer A. Mohamed, **Medhat A. Al-Ghobashy**, Faten A. Fathalla, Samah S. Abbas. “Coupling of on-column trypsin digestion–peptide mapping and principal component analysis for stability and biosimilarity assessment of recombinant human growth hormone”, *Journal of Chromatography B*, **1072**, 105-115, (2018), ISSN 1570-0232.
DOI: [10.1016/j.jchromb.2017.11.007](https://doi.org/10.1016/j.jchromb.2017.11.007)

186. Moenes, Eman M., **Medhat A Al-Ghobashy**, Abeer A Mohamed, and Maissa Y Salem. "Comparative Assessment of the Effect of Hyper-glycosylation on the Pattern and Kinetics of Degradation of Darbepoetin Alfa using a Stability-Indicating Orthogonal Testing Protocol", *Journal of Chromatography B*, **1072**, 405-414, (2018), ISSN 1570-0232.
DOI: [10.1016/j.jchromb.2017.10.057](https://doi.org/10.1016/j.jchromb.2017.10.057)
187. A. K. Attia, **M. A. Al-Ghobashy**, G. M. El-Sayed, and S. M. Kamal, "Simultaneous determination of linezolid, meropenem and theophylline in plasma," *Data Brief*, vol. 21, pp. 150–153, 2018.
188. Ibrahim, S.M., **Al-Shorbagy, M.Y.**, Abdallah, D.M. *et al.* "Activation of $\alpha 7$ Nicotinic Acetylcholine Receptor Ameliorates Zymosan-Induced Acute Kidney Injury in BALB/c Mice", *Sci Rep*, **8(1)**, 16814, (2018).
DOI: <https://doi.org/10.1038/s41598-018-35254-1>
189. Rabab M. Ali, **Muhammad Y. Al-Shorbagy**, Maged W. Helmy, Hanan S. El-Abhar. "Role of Wnt4/ β -catenin, Ang II/TGF β , ACE2, NF- κ B, and IL-18 in attenuating renal ischemia/reperfusion-induced injury in rats treated with Vit D and pioglitazone", *European Journal of Pharmacology*, **15(831)**, 68-76, (2018), ISSN 0014-2999.
DOI: <https://doi.org/10.1016/j.ejphar.2018.04.032>.
190. Mohammed K. Abdelhameid, Madlen B. Labib, Ahmed T. Negmeldin, **Muhammad Al-Shorbagy** & Manal R. Mohammed, "Design, synthesis, and screening of ortho-amino thiophene carboxamide derivatives on hepatocellular carcinoma as VEGFR-2Inhibitors", *Journal of Enzyme Inhibition and Medicinal Chemistry*, **33(1)**, 1472-1493, (2018).
DOI: [10.1080/14756366.2018.1503654](https://doi.org/10.1080/14756366.2018.1503654).

191. Abd Elhameid MK, Ryad N, **Al-Shorbagy MY**, Mohammed MR, Ismail MM, El Meligie S. “Design, Synthesis and Screening of 4,6-Diaryl Pyridine and Pyrimidine Derivatives as Potential Cytotoxic Molecules”, *Chem Pharm Bull*, **66(10)**, 939-952. (2018).
DOI: [10.1248/cpb.c18-00269](https://doi.org/10.1248/cpb.c18-00269).
192. Ibrahim, F.A., **Al-Ghobashy, M.A.**, Abd El-Rahman, M.K. *et al.* “Optimization and in line potentiometric monitoring of enhanced photocatalytic degradation kinetics of Gemifloxacin using TiO₂ nanoparticles/H₂O₂”. *Environ Sci Pollut Res*, **24**, 23880–23892 (2017).
DOI: [10.1007/s11356-017-0045-8](https://doi.org/10.1007/s11356-017-0045-8)
193. Heba S. Abed, **Medhat A. Al-Ghobashy**, Faten A. Fathalla, Maissa Y. Salem. “Evaluation of the combined effects of pegylation and glycosylation on the stability of erythropoietin using a stability-indicating SE-HPLC”, *Biologicals*, **50**, 129-136, (2017), ISSN 1045-1056.
DOI: [10.1016/j.biologicals.2017.08.012](https://doi.org/10.1016/j.biologicals.2017.08.012).

Section 2: Sustainable Development Goal 6



1. Attallah, O.A., **Al-Ghobashy, M.A.**, Nebsen, M. *et al.* “Assessment of pectin-coated magnetite nanoparticles in low-energy water desalination applications”, *Environ Sci Pollut Res*, **25**, 18476–18483 (2018).
DOI: [10.1007/s11356-018-2060-9](https://doi.org/10.1007/s11356-018-2060-9).
2. Ibrahim, F.A., **Al-Ghobashy, M.A.**, Abd El-Rahman, M.K. *et al.* “Optimization and in line potentiometric monitoring of enhanced photocatalytic degradation kinetics of Gemifloxacin using TiO₂ nanoparticles/H₂O₂”. *Environ Sci Pollut Res*, **24**, 23880–23892 (2017).
DOI: [10.1007/s11356-017-0045-8](https://doi.org/10.1007/s11356-017-0045-8).

Section 3: Sustainable Development Goal 9

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



1. Darwish, Amira Mohamed Galal, Hebatallah H. Abo Nahas, Yasmin H. Korra, **Alaa A. Osman**, Wedad M. El-Kholy, Maria Reyes-Córdova, Essa M. Saied, and Ahmed M. Abdel-Azeem. "Fungal Lipases: Insights into Molecular Structures and Biotechnological Applications in Medicine and Dairy Industry" *Industrially Important Fungi for Sustainable Development*, 461-514, Springer, Cham, (2021).

DOI: https://doi.org/10.1007/978-3-030-85603-8_13

2. **Al-Ghobashy MA**, Nadim AH, El-Sayed GM, Nebsen M. "Label-Free Potentiometric Ion Flux Immunosensor for Determination of Recombinant Human Myelin Basic Protein: Application to Downstream Purification from Transgenic Milk", *ACS Sens.*, **4(2)**, 413-420, (2019).

DOI: [10.1021/acssensors.8b01315](https://doi.org/10.1021/acssensors.8b01315).

Section 4: Sustainable Development Goal 15



1. Shendy, A.H., Eltanany, B.M., **Al-Ghobashy, M.A.** *et al.* “Coupling of GC-MS/MS to Principal Component Analysis for Assessment of Matrix Effect: Efficient Determination of Ultra-Low Levels of Pesticide Residues in Some Functional Foods”, *Food Anal. Methods*, **12**, 2870–2885, (2019).
DOI: <https://doi.org/10.1007/s12161-019-01643-z>.
2. Ibrahim, F.A., **Al-Ghobashy, M.A.** & Abo-Elmagd, I.F. “Energy-efficient carbon-doped titanium dioxide nanoparticles: synthesis, characterization, and catalytic properties under visible LED irradiation for degradation of Gemifloxacin”, *SN Appl. Sci.*, **1**, 631, (2019).
DOI: [10.1007/s42452-019-0644-8](https://doi.org/10.1007/s42452-019-0644-8)