

Centre for Drug Research and Development (CDRD)

Research Activities

Publications

AY 2022/2023

- 1) **El-Hazek, R.M.M., Zaher, N.H., Emam, H.E.S., El-Gazzar, M.G., Khalil, A.**
Pyrazole-sulfonamide scaffold featuring dual-tail strategy as apoptosis inducers in colon cancer.
(2023) Scientific Reports, 13 (1), art. no. 5782, .
- 2) **Abo Kamer, A.M., Amer, N.M., Abdelmegeed, A.A., El Maghraby, G.M., Gamaleldin, N.M.**
Surfactant nanovesicles for augmented antibacterial activity against carbapenemase resistant Enterobacteriaceae and extended spectrum beta-lactamases producing bacteria: in vitro and in vivo evaluation.
(2023) BMC Microbiology, 23 (1), art. No. 73, .
- 3) **Khalifa, A., Giles, M., Ali, H.I., Mohamady, S.**
Metal- and Catalyst-Free Synthesis of 2-Substituted-Phthalimides Using 2-(Arenesulfonyl)Phthalimide as Key Reagents.
(2023) European Journal of Organic Chemistry, 26 (17), art. no. e202300207, .
- 4) **Kamal, R.E., Menze, E., Albohy, A., Ahmed, H.I., Azab, S.S.**
Erratum to "Neuroprotective repositioning and anti-tau effect of carvedilol on rotenone induced neurotoxicity in rats: Insights from an insilico & in vivo anti-Parkinson's disease study.
(2023) European Journal of Pharmacology, 945, art. no. 175534.
- 5) **Elhesaisy, N.A., Swidan, S.A., Tawfiq, R.A., El-Nabarawi, M.A., Teaima, M.H.**
Fabrication and characterization of anti-rosacea 3D nanofibrous customized sheet masks as a novel scaffold for repurposed use of spironolactone with pre-clinical studies
(2023) International Journal of Pharmaceutics, 636, art. no. 122816.
- 6) **Nasr, A.M., Badawi, N.M., Tartor, Y.H., Sobhy, N.M., Swidan, S.A.**
Development, Optimization, and In Vitro/In Vivo Evaluation of Azelaic Acid Transethosomal Gel for Antidermatophyte Activity.
(2023) Antibiotics, 12 (4), art. no. 707.
- 7) **Hendy, M.S., Mowaka, S., Elkady, E.F., El-Zaher, A., Ayoub, B.M.**
The potential off-target neuroprotective effect of sister gliflozins suggests their repurposing despite not crossing the blood–brain barrier: From bioanalytical assay in rats into theory genesis.
(2023) Journal of Separation Science, 46 (6), art. no. 2200921.

8) **Khodeer, D.M., Nasr, A.M., Swidan, S.A., Shabayek, S., Khinkar, R.M., Aldurdunji, M.M., Ramadan, M.A., Badr, J.M.**

Characterization, antibacterial, antioxidant, antidiabetic, and anti-inflammatory activities of green synthesized silver nanoparticles using *Phragmanthera austroarabica* A. G. Mill and *J. A. Nyberg* extract.

(2023) *Frontiers in Microbiology*, 13, art. no. 1078061.

9) **Mojally, M., Abdou, R., Bokhari, W., Sab, S., Dawoud, M., Albohy, A.**

Investigations on the cytotoxicity and antimicrobial activities of terezine E and 14-hydroxyterezine D.

(2023) *Brazilian Journal of Medical and Biological Research*, 56, art. no. e12404.

10) **Abdelwahed, M.T., Hegazy, M.A., Mohamed, E.H.**

Major biochemical constituents of *Withania somnifera* (ashwagandha) extract: A review of chemical analysis.

(2023) *Reviews in Analytical Chemistry*, 42 (1), art. no. 20220055.

11) **Zaher, N.H., Elhazek, R.M.M., Gouda, A.E., Khalil, A., Elgazzar, M.G.**

Challenging breast cancer through novel sulfonamide-pyridine hybrids: design, synthesis, carbonic anhydrase IX inhibition and induction of apoptosis.

(2023) *Future Medicinal Chemistry*, 15 (1), pp. 147-166. Cited 1 time.

12) **Abdollah, M.R.A., Ali, A.A., Elgohary, H.H., Elmazar, M.M.**

Antiangiogenic drugs in combination with seaweed fucoidan: A mechanistic in vitro and in vivo study exploring the VEGF receptor and its downstream signaling molecules in hepatic cancer.

(2023) *Frontiers in Pharmacology*, 14, art. no. 1108992.

13) **AlTarabeen, M., Al-Balas, Q., Albohy, A., Müller, W.E.G., Proksch, P.**

Marine-Based Candidates as Potential RSK1 Inhibitors: A Computational Study.

(2023) *Molecules*, 28 (1), art. no. 202.

14) **Hakeem, A.N., Kamal, M.M., Tawfiq, R.A., Abdelrahman, B.A., Hammam, O.A., Elmazar, M.M., El-Khatib, A.S., Attia, Y.M.**

Elafibranor modulates ileal macrophage polarization to restore intestinal integrity in NASH: Potential crosstalk between ileal IL-10/STAT3 and hepatic TLR4/NF- κ B axes.

(2023) *Biomedicine and Pharmacotherapy*, 157, art. no. 114050. Cited 1 time.

AY 2021/2022

1) Sayed, M., Naiim, C.M., Aboelsaad, M., Ibrahim, M.K.

Internet addiction and relationships with depression, anxiety, stress and academic performance among Egypt pharmacy students: a cross-sectional designed study. (2022) BMC Public Health, 22 (1), art. no. 1826. Cited 3 times.

2) Mahmoud, K., Swidan, S., El-Nabarawi, M., Teaima, M.

Lipid based nanoparticles as a novel treatment modality for hepatocellular carcinoma: a comprehensive review on targeting and recent advances. (2022) Journal of Nanobiotechnology, 20 (1), art. no. 109. Cited 14 times.

3) Abdelhameed, R.F.A., Nafie, M.S., Hal, D.M., Nasr, A.M., Swidan, S.A., Abdel-Kader, M.S., Ibrahim, A.K., Ahmed, S.A., Badr, J.M., Eltamany, E.E.

Comparative Cytotoxic Evaluation of Zygophyllum album Root and Aerial Parts of Different Extracts and Their Biosynthesized Silver Nanoparticles on Lung A549 and Prostate PC-3 Cancer Cell Lines. (2022) Pharmaceuticals, 15 (11), art. no. 1334. Cited 2 times.

4) Abdel-Mageed, H.M., Nada, D., Radwan, R.A., Mohamed, S.A., Gohary, N.A.E.L.

Optimization of catalytic properties of Mucor racemosus lipase through immobilization in a biocompatible alginate gelatin hydrogel matrix for free fatty acid production: a sustainable robust biocatalyst for ultrasound-assisted olive oil hydrolysis. (2022) 3 Biotech, 12 (11), art. no. 285. Cited 1 time.

5) Kamal, R.E., Menze, E., Albohy, A., Ahmed, H.I., Azab, S.S.

Neuroprotective repositioning and anti-tau effect of carvedilol on rotenone induced neurotoxicity in rats: Insights from an insilico& in vivo anti-Parkinson's disease study. (2022) European Journal of Pharmacology, 932, art. no. 175204. Cited 1 time.

6) Khedr, A.I.M., Farrag, A.F.S., Nasr, A.M., Swidan, S.A., Nafie, M.S., Abdel-Kader, M.S., Goda, M.S., Badr, J.M., Abdelhameed, R.F.A.

Comparative Estimation of the Cytotoxic Activity of Different Parts of Cynara scolymus L.: Crude Extracts versus Green Synthesized Silver Nanoparticles with Apoptotic Investigation. (2022) Pharmaceuticals, 14 (10), art. no. 2185. Cited 2 times.

7) Khedr, A.I.M., Goda, M.S., Farrag, A.F.S., Nasr, A.M., Swidan, S.A., Nafie, M.S., Abdel-Kader, M.S., Badr, J.M., Abdelhameed, R.F.A.

Silver Nanoparticles Formulation of Flower Head's Polyphenols of Cynara scolymus L.: A Promising Candidate against Prostate (PC-3) Cancer Cell Line through Apoptosis Activation. (2022) Molecules, 27 (19), art. no. 6304. Cited 3 times.

8) **Elbarazi, A.S., Badary, O.A., Elmazar, M.M., Elrassas, H.**

Cognitive processing therapy versus medication for the treatment of comorbid substance use disorder and post-traumatic stress disorder in Egyptian patients (randomized clinical trial).

(2022) Journal of Evidence-Based Psychotherapies, 22 (2), pp. 63-90. Cited 1 time.

9) **Kassem, D.H., Habib, S.A., Badr, O.I., Kamal, M.M.**

Isolation of Rat Adipose Tissue Mesenchymal Stem Cells for Differentiation into Insulin-producing Cells.

(2022) Journal of Visualized Experiments, 2022 (186), art. no. e63348.

10) **Shawish, I., Barakat, A., Aldalbahi, A., Malebari, A.M., Nafie, M.S., Bekhit, A.A., Albohy, A., Khan, A., Ul-Haq, Z., Haukka, M., De La Torre, B.G., Albericio, F., El-Faham, A.**

Synthesis and Antiproliferative Activity of a New Series of Mono- And Bis(dimethylpyrazolyl)-s-triazine Derivatives Targeting EGFR/PI3K/AKT/mTOR Signaling Cascades.

(2022) ACS Omega, 7 (28), pp. 24858-24870. Cited 4 times.

11) **Shady, N.H., Abdullah, H.S., Maher, S.A., Albohy, A., Elrehany, M.A., Mokhtar, F.A., Oraby, H.F., Shawky, A.M., Abdelmohsen, U.R.**

Antiulcer Potential of Psidium guajava Seed Extract Supported by Metabolic Profiling and Molecular Docking.

(2022) Antioxidants, 11 (7), art. no. 1230. Cited 2 times.

12) **Tawfiq, R.A., Nassar, N.N., Hammam, O.A., Allam, R.M., Elmazar, M.M., Abdallah, D.M., Attia, Y.M.**

Obeticholic acid orchestrates the crosstalk between ileal autophagy and tight junctions in non-alcoholic steatohepatitis: Role of TLR4/TGF- β 1 axis.

(2022) Chemico-Biological Interactions, 361, art. no. 109953. Cited 4 times.

13) **Michel, H.E., Tadros, M.M., Hendy, M.S., Mowaka, S., Ayoub, B.M.**

Omarigliptin attenuates rotenone-induced Parkinson's disease in rats: Possible role of oxidative stress, endoplasmic reticulum stress and immune modulation.

(2022) Food and Chemical Toxicology, 164, art. no. 113015. Cited 2 times.

14) **Elbarazi, A., Tikamdas, R., Ahmed, S., Ramadan, S.**

Cognitive Processing Therapy for the Treatment of PTSD, Depression and Anxiety in Syrian Refugees in Egypt.

(2022) Intervention, 20 (2), pp. 179-187. Cited 1 time.

15) **Noor, A.O., Almasri, D.M., Basyony, A.F., Albohy, A., Almutairi, L.S., Alhammadi, S.S., Alkhamisi, M.A., Alsharif, S.A., Elfaky, M.A.**

Biodiversity of N-acyl homoserine lactonase (aiiA) gene from Bacillus subtilis.

(2022) Microbial Pathogenesis, 166, art. no. 105543. Cited 2 times.

-
- 16) **Habib, S.A., Kamal, M.M., El-Maraghy, S.A., Senousy, M.A.**
Exendin-4 enhances osteogenic differentiation of adipose tissue mesenchymal stem cells through the receptor activator of nuclear factor-kappa B and osteoprotegerin signaling pathway.
(2022) *Journal of Cellular Biochemistry*, 123 (5), pp. 906-920. Cited 4 times.
- 17) **Uras, I.S., Korinek, M., Albohy, A., Abdulrazik, B.S., Lin, W., Ebada, S.S., Konuklugil, B.**
Anti-Inflammatory, Antiallergic and COVID-19 Main Protease (Mpro) Inhibitory Activities of Butenolides from a Marine-Derived Fungus *Aspergillus costaricensis*
(2022) *ChemistrySelect*, 7 (12), art. no. e202200130. Cited 2 times.
- 18) **Nematallah, K.A., Elmekawy, S., Abdollah, M.R.A., Elmazar, M.M., Abdel-Sattar, E., Meselhy, M.R.**
Cheminformatics Application in the Phytochemical and Biological Study of *Eucalyptus globulus* L. Bark as a Potential Hepatoprotective Drug.
(2022) *ACS Omega*, 7 (9), pp. 7945-7956. Cited 1 time.
- 19) **Elbarazi, A.S.**
Post-traumatic stress disorder and difficulties in emotion regulation among university students under the covid-19 condition.
(2022) *Journal of Evidence-Based Psychotherapies*, 22 (1), pp. 87-102. Cited 3 times.
- 20) **Mahmoud, M., Abdollah, M.R.A., Elsesy, M.E., Abou El Ella, D.A., Zada, S.K., Tolba, M.F.**
The natural isoflavone Biochanin-A synergizes 5-fluorouracil anticancer activity in vitro and in vivo in Ehrlich solid-phase carcinoma model.
(2022) *Phytotherapy Research*, 36 (3), pp. 1310-1325. Cited 5 times.
- 21) **Elhassan, M.M., Mahmoud, A.M., Hegazy, M.A., Mowaka, S.**
Kinetic Degradation Study of Ipragliflozin Coupled with MS/MS Structural Elucidation.
(2022) *Chromatographia*, 85 (3), pp. 233-245. Cited 2 times.
- 22) **Tawfik, S.M., Abdollah, M.R.A., Elmazar, M.M., El-Fawal, H.A.N., Abdelnaser, A.**
Effects of Metformin Combined with Antifolates on HepG2 Cell Metabolism and Cellular Proliferation.
(2022) *Frontiers in Oncology*, 12, art. no. 828988. Cited 2 times.
- 23) **Abdelbaset, S., El-Kersh, D.M., Ayoub, I.M., Eldahshan, O.A.**
GC-MS profiling of *Vitex pinnata* bark lipophilic extract and screening of its anti-TB and cytotoxic activities.
(2022) *Natural Product Research*. Cited 1 time.

24) **Eissa, M.A., Hashim, Y.Z.H.-Y., Abdul Azziz, S.S.S., Salleh, H.M., Isa, M.L.M., Abd Warif, N.M., Abdullah, F., Ramadan, E., El-Kersh, D.M.**

Phytochemical Constituents of *Aquilaria malaccensis* Leaf Extract and Their Anti-Inflammatory Activity against LPS/IFN- γ -Stimulated RAW 264.7 Cell Line.

(2022) ACS Omega. Cited 3 times.

25) **Ibrahim, M.K., Aboelsaad, M., Tony, F., Sayed, M.**

Garcinia camobogia extract alters anxiety, sociability, and dopamine turnover in male Swiss albino mice.

(2022) SN Applied Sciences, 4 (1), art. no. 23. Cited 1 time.

AY 2020/2021

1) Hamza, M.S., Ramadan, E., Salama, S.A.

Glucose and fatty acid metabolism involved in the protective effect of metformin against ulipristal-induced endometrial changes in rats.

(2021) Scientific Reports, 11 (1), art. no. 8863. Cited 3 times.

2) Soliman, A.M., Khalil, A., Ramadan, E., Ghorab, M.M.

Induction of apoptosis, cytotoxicity and radiosensitization by novel 3,4-dihydroquinazolinone derivatives.

(2021) Bioorganic and Medicinal Chemistry Letters, 49, art. no. 128308. Cited 3 times.

3) Elfouly, A., Awny, M., Ibrahim, M.K., Aboelsaad, M., Tian, J., Sayed, M.

Effects of Long-Acting Testosterone Undecanoate on Behavioral Parameters and Na⁺, K⁺-ATPase mRNA Expression in Mice with Alzheimer's Disease.

(2021) Neurochemical Research, 46 (9), pp. 2238-2248. Cited 4 times.

4) Elhassan, M.M., Mahmoud, A.M., Hegazy, M.A., Mowaka, S.

In-line monitoring of sitagliptin dissolution profile from tablets utilizing an eco-friendly potentiometric sensor.

(2021) Chemical Papers, 75 (8), pp. 4165-4176. Cited 7 times.

5) Ali, N.A., Hamdy, N.M., Gibriel, A.A., EL Mesallamy, H.O.

Investigation of the relationship between CTLA4 and the tumor suppressor RASSF1A and the possible mediating role of STAT4 in a cohort of Egyptian patients infected with hepatitis C virus with and without hepatocellular carcinoma.

(2021) Archives of Virology, 166 (6), pp. 1643-1651. Cited 7 times.

6) El-sayed, H.A.N., Abdollah, M.R.A., Raafat, S.N., Ragab, D.

Monocyte monolayer assay in pre-transfusion testing: A magic key in transfusing patients with recurrent bad cross-match due to alloimmunization.

(2021) Journal of Immunological Methods, 492, art. no. 112968.

7) Kamal, M.M., Adel, A., Sayed, G.H., Ragab, S., Kassem, D.H.

New emerging roles of the novel hepatokine SERPINB1 in type 2 diabetes mellitus: Crosstalk with β -cell dysfunction and dyslipidemia.

(2021) Translational Research, 231, pp. 1-12. Cited 4 times.

8) Attia, Y.M., Tawfiq, R.A., Gibriel, A.A., Ali, A.A., Kassem, D.H., Hammam, O.A., Elmazar, M.M.

Activation of FXR modulates SOCS3/Jak2/STAT3 signaling axis in a NASH-dependent hepatocellular carcinoma animal model.

(2021) Biochemical Pharmacology, 186, art. no. 114497. Cited 16 times.

-
- 9) **Swellam, M., Bakr, N.M., El Magdoub, H.M., Hamza, M.S., Ezz El Arab, L.R.**
Emerging role of miRNAs as liquid biopsy markers for prediction of glioblastoma multiforme prognosis.
(2021) *Journal of Molecular Neuroscience*, 71 (4), pp. 836-844. Cited 9 times.
- 10) **Elhassan, M.M., Mahmoud, A.M., Hegazy, M.A., Mowaka, S.**
Electrochemical Determination of Ipragliflozin in Pure Form and in Spiked Human Plasma on a Glassy Carbon Electrode.
(2021) *Journal of the Electrochemical Society*, 168 (3), art. no. 036507. Cited 3 times.
- 11) **Ayoub, B.M., Michel, H.E., Mowaka, S., Hendy, M.S., Tadros, M.M.**
Repurposing of omarigliptin as a neuroprotective agent based on docking with A2A adenosine and AChE receptors, brain GLP-1 response and its brain/plasma concentration ratio after 28 days multiple doses in rats using LC-MS/MS.
(2021) *Molecules*, 26 (4), art. no. 889. Cited 7 times.
- 12) **Nagy, M.I., Darwish, K.M., Kishk, S.M., Tantawy, M.A., Nasr, A.M., Qushawy, M., Swidan, S.A., Mostafa, S.M., Salama, I.**
Design, synthesis, anticancer activity, and solid lipid nanoparticle formulation of indole- and benzimidazole-based compounds as pro-apoptotic agents targeting bcl-2 protein.
(2021) *Pharmaceuticals*, 14 (2), art. no. 113, pp. 1-37. Cited 9 times.
- 13) **Hamza, M.S., Badary, O.A., Elmazar, M.M.**
Cross-Sectional Study on Awareness and Knowledge of COVID-19 Among Senior pharmacy Students.
(2021) *Journal of Community Health*, 46 (1), pp. 139-146. Cited 41 times.
- 14) **Mowaka, S., Ashoush, N., Tadros, M.M., Ayoub, B.M.**
Investigation of Pharmacokinetic Parameters of Trelagliptin in Egyptian Volunteers Using Sensitive LC-MS/MS: A Comparative Study with a Japanese Population.
(2021) *Journal of Analytical Methods in Chemistry*, 2021, art. no. 9664099. Cited 1 time.
- 15) **Eissa, M.A., Hashim, Y.Z.H.-Y., Mohd Nasir, M.H., Nor, Y.A., Salleh, H.M., Isa, M.L.M., Abd-Azziz, S.S.S., Abd Warif, N.M., Ramadan, E., Badawi, N.M.**
Fabrication and characterization of Agarwood extract-loaded nanocapsules and evaluation of their toxicity and anti-inflammatory activity on RAW 264.7 cells and in zebrafish embryos.
(2021) *Drug Delivery*, 28 (1), pp. 2618-2633. Cited 2 times.
- 16) **Ezzeldeen, Y., Swidan, S., Elmeshad, A., Sebak, A.**
Green synthesized honokiol transfersomes relieve the immunosuppressive and stem-like cell characteristics of the aggressive b16f10 melanoma.
(2021) *International Journal of Nanomedicine*, 16, pp. 5693-5712. Cited 5 times.

17) **Ayoub, B., El Zahar, N., Michel, H., Tadros, M.**

Economic Spectrofluorometric Bioanalysis of Empagliflozin in Rats' Plasma.

(2021) Journal of Analytical Methods in Chemistry, 2021, art. no. 9983477. Cited 1 time.

18) **Abo-Salem, H.M., Gibriel, A.A., El Awady, M.E., Mandour, A.H.**

Synthesis, molecular docking and biological evaluation of novel flavone derivatives as potential anticancer agents targeting akt.

(2021) Medicinal Chemistry, 17 (2), pp. 158-170. Cited 8 times.

AY 2019/2020

- 1) **Ibrahim, M.K., Tikamdas, R., Kamal, M., Nouh, R.A., Sayed, M.**
Testosterone undecanoate effects on behavior and cognitive functions in male Swiss albino mice exposed to chronic social defeat.
(2020) Research Journal of Pharmacy and Technology, 13 (12), pp. 6041-6049. Cited 1 time.
- 2) **El Zahar, N.M., Tadros, M.M., Ayoub, B.M.**
Development of advanced chemometric-assisted spectrophotometric methods for the determination of cromolyn sodium and its alkaline degradation products.
(2020) Molecules, 25 (24), art. no. 5953. Cited 3 times.
- 3) **Kassem, D.H., Kamal, M.M.**
Therapeutic efficacy of umbilical cord-derived stem cells for diabetes mellitus: a meta-analysis study.
(2020) Stem Cell Research and Therapy, 11 (1), art. no. 484. Cited 13 times.
- 4) **Elhesaisy, N., Swidan, S.**
Trazodone Loaded Lipid Core Poly (ϵ -caprolactone) Nanocapsules: Development, Characterization and in Vivo Antidepressant Effect Evaluation.
(2020) Scientific Reports, 10 (1), art. no. 1964. Cited 8 times.
- 5) **Tarek, M., Elzanfaly, E.S., Amer, S.M., Wagdy, H.A.**
Selective analysis of Nadifloxacin in human plasma samples using a molecularly imprinted polymer-based solid-phase extraction proceeded by UPLC-DAD analysis.
(2020) Microchemical Journal, 158, art. no. 105162. Cited 4 times.
- 6) **Mohamed, E.H., El-Maraghy, C.M.**
Eco-friendly-assessed TLC-densitometry and absorptivity coefficient based spectrophotometric methods for resolution and simultaneous analysis of two gastrointestinal acting drugs with superimposed spectra.
(2020) Microchemical Journal, 158, art. no. 105161. Cited 3 times.
- 7) **Ayoub, B.M., Ashoush, N., Tadros, M.M., El Zahar, N.M., Hendy, M.S., Mowaka, S.**
Rosuvastatin dose should be case individualized: An observation from inherited hypercholesterolemia case study.
(2020) Pharmazie, 75 (10), pp. 531-532.
- 8) **Kassem, D.H., Kamal, M.M.**
Mesenchymal Stem Cells and Their Extracellular Vesicles: A Potential Game Changer for the COVID-19 Crisis.
(2020) Frontiers in Cell and Developmental Biology, 8, art. no. 587866. Cited 8 times.

-
- 9) **Mowaka, S., Ashoush, N., Tadros, M., Zahar, N.E., Ayoub, B.**
Enhanced extraction technique of omarigliptin from human plasma—applied to biological samples from healthy human volunteers.
(2020) *Molecules*, 25 (18), art. no. 4232. Cited 2 times.
- 10) **Ibrahim, M.K., Kamal, M., Tikamdas, R., Nouh, R.A., Tian, J., Sayed, M.**
Effects of Chronic Caffeine Administration on Behavioral and Molecular Adaptations to Sensory Contact Model Induced Stress in Adolescent Male Mice.
(2020) *Behavior Genetics*, 50 (5), pp. 374-383. Cited 8 times.
- 11) **Mostafa, D.A.E., Hashad, A.M., Ragab, M.F., Wagdy, H.A.**
Comparison Between the Pharmacokinetics Data of Ketorolac Tromethamine Wafer a Novel Drug Delivery System and Conventional Ketorolac Tromethamine Tablets to Enhance Patient Compliance Using a New LC-MS/MS Method.
(2020) *BioNanoScience*, 10 (3), pp. 745-757. Cited 2 times.
- 12) **Ayoub, B.M., Ramadan, E., Ashoush, N., Tadros, M.M., Hendy, M.S., Elmazar, M.M., Mousa, S.A.**
Avoiding COVID-19 complications with diabetic patients could be achieved by multi-dose Bacillus Calmette–Guérin vaccine: A case study of beta cells regeneration.
(2020) *Pharmazie*, 75 (8), pp. 375-380.
- 13) **Kassem, D.H., Adel, A., Sayed, G.H., Kamal, M.M.**
A Novel SERPINB1 Single-Nucleotide Polymorphism Associated With Glycemic Control and β -Cell Function in Egyptian Type 2 Diabetic Patients.
(2020) *Frontiers in Endocrinology*, 11, art. no. 450. Cited 5 times.
- 14) **Attia, Y.M., Hammam, O.A., Ammar, R.A., Mansour, M.T., Elmazar, M.M.**
Crosstalk between aldehyde dehydrogenase-1 and chemoresistance in breast cancer: Insights into the role of vitamin D3.
(2020) *Life Sciences*, 253, art. no. 117733. Cited 4 times.
- 15) **Hamza, M.S., Sayed, M., Salama, S.**
2-Methoxyestradiol inhibits high fat diet-induced obesity in rats through modulation of adipose tissue macrophage infiltration and immunophenotype.
(2020) *European Journal of Pharmacology*, 878, art. no. 173106. Cited 3 times.
- 16) **Wafaa A. Zaghary, Mowaka, S., Hendy, M.S.**
Sample Enrichment of Canagliflozin Prior to Its Spectrophotometric Determination in Presence of Metformin: Application to Recently Approved Binary Dosage Form.
(2020) *Journal of Analytical Chemistry*, 75 (6), pp. 742-753. Cited 5 times.

17) **Nasr, A.M., Qushawy, M.K., Elkhoudary, M.M., Gawish, A.Y., Elhady, S.S., Swidan, S.A.**

Quality by design for the development and analysis of enhanced in-situ forming vesicles for the improvement of the bioavailability of fexofenadine hcl in vitro and in vivo.

(2020) *Pharmaceutics*, 12 (5), art. no. 409. Cited 11 times.

18) **Ayoub, B.M.**

COVID-19 vaccination clinical trials should consider multiple doses of BCG.

(2020) *Pharmazie*, 75 (4), p. 159. Cited 16 times.

19) **Kassem, D.H., Kamal, M.M.**

Wharton's Jelly MSCs: Potential Weapon to Sharpen for Our Battle against DM.

(2020) *Trends in Endocrinology and Metabolism*, 31 (4), pp. 271-273. Cited 4 times.

20) **Mohamady, S., Gibriel, A.A., Ahmed, M.S., Hendy, M.S., Naguib, B.H.**

Design and novel synthetic approach supported with molecular docking and biological evidence for naphthoquinone-hydrazinotriazolothiadiazine analogs as potential anticancer inhibiting topoisomerase-II β .

(2020) *Bioorganic Chemistry*, 96, art. no. 103641. Cited 20 times.

21) **El-Maraghy, S.A., Adel, O., Zayed, N., Yosry, A., El-Nahaas, S.M., Gibriel, A.A.**

Circulatory miRNA-484, 524, 615 and 628 expression profiling in HCV mediated HCC among Egyptian patients; implications for diagnosis and staging of hepatic cirrhosis and fibrosis.

(2020) *Journal of Advanced Research*, 22, pp. 57-66. Cited 25 times.

22) **Attia, Y.M., El-Kersh, D.M., Ammar, R.A., Adel, A., Khalil, A., Walid, H., Eskander, K., Hamdy, M., Reda, N., Mohsen, N.E., Al-Toukhy, G.M., Mansour, M.T., Elmazar, M.M.**

Inhibition of aldehyde dehydrogenase-1 and p-glycoprotein-mediated multidrug resistance by curcumin and vitamin D3 increases sensitivity to paclitaxel in breast cancer.

(2020) *Chemico-Biological Interactions*, 315, art. no. 108865. Cited 27 times.

23) **Nasr, A.M., Elhady, S.S., Swidan, S.A., Badawi, N.M.**

Celecoxib loaded in-situ provesicular powder and its in-vitro cytotoxic effect for cancer therapy: Fabrication, characterization, optimization and pharmacokinetic evaluation.

(2020) *Pharmaceutics*, 12 (12), art. no. 1157, pp. 1-20. Cited 4 times.

24) **Qushawy, M., Nasr, A., Swidan, S., Mortagi, Y.**

Development and characterization of gimepiride novel solid nanodispersion for improving its oral bioavailability.

(2020) *Scientia Pharmaceutica*, 88 (4), art. no. 52, pp. 1-17. Cited 6 times.

25) **Hamza, M.S., Mousa, S.A.**

Cancer-Associated Thrombosis: Risk Factors, Molecular Mechanisms, Future Management.

(2020) Clinical and Applied Thrombosis/Hemostasis, 26. Cited 15 times.

26) **Aboul-Enein, H.Y., Mostafa, G.A.E., Alrabiah, H., Al-Ramadi, M., Attia, S.M., Wagdy, H.A.**

Development and validation of HPLC-UV method for the determination of a potent synthetic cannabinoid THJ-2201 in mouse plasma and application in a pharmacokinetic study.

(2020) Current Pharmaceutical Analysis, 16 (4), pp. 404-411.

27) **Ayoub, B.M.**

Multifaceted repurposing of flozins, glitazones, gliptins and GLP-1 agonists as potential pluritherapeutic agents.

(2020) Research Journal of Pharmacy and Technology, 13 (1), pp. 498-504. Cited 2 times.