**جامعة الزقـازيق**

**كلية الصـــــيدلة**

**قسم الصيدلانيات**

......................

**ما تم تنفيذه من الخطة البحثية لقسم الصيدلانيات 2021-2022**

**اولا: رسائل الماجستير و الدكتوراة التى تم مناقشتها**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| م | **المجال البحثي**  **الرئيسي** | **المجال البحثي الفرعي** | **بحوث الدرجات العلمية** | |
| **موضوعات**  **الماجستير** | **موضوعات**  **الدكتوراه** |
| 1 | تصميم أشكال حيوية متنوعة | (1) استهدداف اماكن مرضية معينة في الجسم | (1" صياغة وتقييم عقار معين لعلاج الأمراض النفسية في صورة هلام من "مستحلب النانو"  "Formulation and characterization of a certain antipsychotic drug as intranasal nanoemulsion gel" |  |
| (2) تحسين الاتاحة الحيوية للدواء | 1) "استخدام إضافات مختلفة لتحفيز سرعة الذوبان لعقاقير معينة ودراسة مدي إتاحتهم""  "Use of different additives to enhance the dissolution rate of certain drugs and to study the extent of their'' | 1. أنظمة ناقلة للعقار تعتمد علي البوليمرات القابلة للتحلل الحيوي بهدف تعظيم انطلاق العقار   "Biodegradable Polymer-Based Drug Delivery Systems for Optimization of Drug Release |
| 3) التغلب علي الاثار الجانبية للدواء |  |  |
| 2 | امكانية استخدام تطبيقات النانوتكنولجي |  | 1)" تعزيز الذوبانيه والتشتت لعقار شحيح الذوبان في الماء باستخدام تقنيه النانو "  "Solubility and dissolution Enhancement of Poorly water- Soluble Drug using nano technology technique " | 1) " تحسين الإتاحة الحيوية لعقار مضاد للسرطان من مصدر طبيعي في أشكال صيدلية مختلفة باستخدام تكنولوجيا الناتو "  ''Enhancement Bioavailability of Natural Anti-cancer drug from different Pharmaceutical Dosage forms by using nano-carrier Technology'' |

**ثانيا: الابحاث التى تم نشرها 2021-2022**

|  |
| --- |
| 1. Salah Attia, M., Ali Hasan, A., Ghazy, F. S., & Gomaa, E. (2021). Solid dispersion as a technical solution to boost the dissolution rate and bioavailability of poorly water-soluble drugs. *Indian Journal of Pharmaceutical Education and Research*, *55*(2s), s327-s339. |
| 1. Attia, M. S., Hassaballah, M. Y., Abdelqawy, M. A., Emad-Eldin, M., Farag, A. K., Negida, A., Ghaith, H., & Emam, S. E. (2021). An updated review of mesoporous carbon as a novel drug delivery system. *Drug Development and Industrial Pharmacy*, *47*(7), 1029-1037. |
| 1. Abdulla, N. A., Balata, G. F., El-ghamry, H. A., & Gomaa, E. (2021). Intranasal delivery of Clozapine using nanoemulsion-based in-situ gels: An approach for bioavailability enhancement. *Saudi Pharmaceutical Journal*, *29*(12), 1466-1485. |
| 1. Ibrahim, T. M., El-Megrab, N. A., & El-Nahas, H. M. (2021). An overview of PLGA in-situ forming implants based on solvent exchange technique: Effect of formulation components and characterization. *Pharmaceutical Development and Technology*, *26*(7), 709-728. |
| 1. Ibrahim, T. M., Eissa, R. G., El-Megrab, N. A., & El-Nahas, H. M. (2021). Morphological characterization of optimized risperidone-loaded in-situ gel forming implants with pharmacokinetic and behavioral assessments in rats. *Journal of Drug Delivery Science and Technology*, *61*, 102195. |
| 1. Abdallah, M. H., Elsewedy, H. S., AbuLila, A. S., Almansour, K., Unissa, R., Elghamry, H. A., & Soliman, M. S. (2021). Quality by design for optimizing a novel liposomal jojoba oil-based Emulgel to ameliorate the anti-inflammatory effect of brucine. *Gels*, *7*(4), 219. |
| 1. Abdallah, M. H., Lila, A. S., Unissa, R., Elsewedy, H. S., Elghamry, H. A., & Soliman, M. S. (2021). Brucine-loaded Ethosomal gel: Design, optimization, and anti-inflammatory activity. *AAPS PharmSciTech*, *22*(8). |
| 1. Abdallah, M. H., Abu Lila, A. S., Unissa, R., Elsewedy, H. S., Elghamry, H. A., & Soliman, M. S. (2021). Preparation, characterization and evaluation of anti-inflammatory and anti-nociceptive effects of brucine-loaded nanoemulgel. *Colloids and Surfaces B: Biointerfaces*, *205*, 111868. |
| 1. Sileem, A. E., Ali, A., Elnahas, H., & Gouda, A. M. (2021). Comparing the asthma control and anti-inflammatory effects of different fixed combinations of inhaled corticosteroids plus long-acting beta 2 agonist; A randomized clinical trial. *Open Access Macedonian Journal of Medical Sciences*, *9*(B), 771-778. |
| 1. Elsewedy, H. S., Al-Dhubiab, B. E., Mahdy, M. A., & Elnahas, H. M. (2021). Basic concepts of Nanoemulsion and its potential application in pharmaceutical, Cosmeceutical and nutraceutical fields. *Research Journal of Pharmacy and Technology*, 3938-3946. |
| 1. Goda, A., Sileem, A., Elnahas, H., & Amin, A. (2021). Recent trends in management of bronchial asthma. *Zagazig Journal of Pharmaceutical Sciences*, *30*(1), 33-49. |
| 1. Elsewedy, H. S., Aldhubiab, B. E., Mahdy, M. A., & Elnahas, H. M. (2021). Brucine PEGylated nanoemulsion: In vitro and in vivo evaluation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, *608*, 125618. |
| 1. Al Zahraa G. Al Ashmawy, Noura G. Eissa, Gehan F. Balata, & Hanan M. El Nahas. (2021). New approach for administration of Doxazosin Mesylate: Comparative study between liquid and solid self-nanoemulsifying drug delivery systems. *International Journal of Research in Pharmaceutical Sciences*, *12*(2), 1095-1101. |
| 1. Elsewedy, H. S., Al Dhubiab, B. E., Mahdy, M. A., & Elnahas, H. M. (2021). A review article on the basic concepts of drug delivery systems as targeting agents. *International Journal of Pharma Medicine and Biological Sciences*, *10*(1), 23-29. |
| 1. Al Ashmawy, A. Z., Eissa, N. G., El Nahas, H. M., & Balata, G. F. (2021). Fast disintegrating tablet of Doxazosin Mesylate nanosuspension: Preparation and characterization. *Journal of Drug Delivery Science and Technology*, *61*, 102210. |
| 1. Younis, N. S., Elsewedy, H. S., Shehata, T. M., & Mohamed, M. E. (2021). Geraniol averts methotrexate-induced acute kidney injury via Keap1/Nrf2/HO-1 and MAPK/NF-κb pathways. *Current Issues in Molecular Biology*, *43*(3), 1741-1755. |
| 1. Lila, A. S., Abdallah, M. H., Khafagy, E., Shehata, T. M., Soliman, M. S., Younes, K. M., Omran, M., & Gad, S. (2021). Design, synthesis and cytotoxic evaluation of 2-amino-4- aryl-6-substituted pyridine-3,5-dicarbonitrile derivatives. *Tropical Journal of Pharmaceutical Research*, *20*(10), 2127-2133. |
| 1. Younis, N. S., Elsewedy, H. S., Soliman, W. E., Shehata, T. M., & Mohamed, M. E. (2021). Geraniol isolated from lemon grass to mitigate doxorubicin-induced cardiotoxicity through Nrf2 and NF-κb signaling. *Chemico-Biological Interactions*, *347*, 109599. |
| 1. Abu Lila, A. S., Abdallah, M. H., Wani, S. U., Gangadharappa, H., Younes, K. M., Khafagy, E., Shehata, T. M., & Soliman, M. S. (2021). Folic acid-conjugated raloxifene-loaded graphene-based nanocarrier: Fabrication, characterization and antitumor screening. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, *625*, 126971. |
| 1. Abu Lila, A. S., Soliman, M. S., Kiran, H., Gangadharappa, H., Younes, K. M., Khafagy, E., Shehata, T. M., Ibrahim, M. M., & Abdallah, M. H. (2021). Tamoxifen-loaded functionalized graphene nanoribbons for breast cancer therapy. *Journal of Drug Delivery Science and Technology*, *63*, 102499. |
| 1. Khalil, H. E., Alqahtani, N. K., Darrag, H. M., Ibrahim, H. M., Emeka, P. M., Badger-Emeka, L. I., Matsunami, K., Shehata, T. M., & Elsewedy, H. S. (2021). Date palm extract (Phoenix dactylifera) PEGylated Nanoemulsion: Development, optimization and cytotoxicity evaluation. *Plants*, *10*(4), 735. |
| 1. Shehata, T. M., Khalil, H. E., Elsewedy, H. S., & Soliman, W. E. (2021). Myrrh essential oil-based nanolipid formulation for enhancement of the antihyperlipidemic effect of atorvastatin. *Journal of Drug Delivery Science and Technology*, *61*, 102277. |
| 1. Ismail, T. A., Shehata, T. M., Mohamed, D. I., Elsewedy, H. S., & Soliman, W. E. (2021). Quality by design for development, optimization and characterization of brucine Ethosomal gel for skin cancer delivery. *Molecules*, *26*(11), 3454. |
| 1. Shehata, T. M., Ibrahim, M. M., & Elsewedy, H. S. (2021). Curcumin Niosomes prepared from Proniosomal gels: In vitro skin permeability, kinetic and in vivo studies. *Polymers*, *13*(5), 791. |
| 1. Soliman, W. E., Shehata, T. M., Mohamed, M. E., Younis, N. S., & Elsewedy, H. S. (2021). Enhancement of curcumin anti-inflammatory effect via formulation into myrrh oil-based Nanoemulgel. *Polymers*, *13*(4), 577. |
| 1. Alanazi, B. M., Alshammari, H. S., Alshammari, N. E., Al Ghazwi, K., Khalifa, N. E., Abdallah, M. H., Alshameri, N. A., Hussein, W., & Alshammari, F. (2021). The effect of patient education interventions on asthma management in hail region. *Asian Journal of Pharmaceutical Research and Health Care*, *13*(4), 288. |
| 1. Sabry, S., El hakim Ramadan, A., Abd elghany, M., Okda, T., & Hasan, A. (2021). Formulation, characterization, and evaluation of the anti-tumor activity of nanosized galangin loaded niosomes on chemically induced hepatocellular carcinoma in rats. *Journal of Drug Delivery Science and Technology*, *61*, 102163. |
| 1. Gomaa, E., & Ayoub, M. M. (2021). Vardenafil oral jellies as a potential approach for management of pediatric irritable bowel syndrome. *Saudi Pharmaceutical Journal*, *29*(9), 955-962. |
| 1. Saafan, H. A., Ibrahim, K. M., Thabet, Y., Elbeltagy, S. M., Eissa, R. A., Ghaleb, A. H., Ibrahim, F., Elsabahy, M., & Eissa, N. G. (2021). Intratracheal administration of chloroquine-loaded Niosomes minimize systemic drug exposure. *Pharmaceutics*, *13*(10), 1677. |
| 1. Thabet, Y., Elsabahy, M., & Eissa, N. G. (2022). Methods for preparation of niosomes: A focus on thin-film hydration method. *Methods*, *199*, 9-15. |
| 1. Elsabahy, M., Song, Y., Eissa, N. G., Khan, S., Hamad, M. A., & Wooley, K. L. (2021). Morphologic design of sugar-based polymer nanoparticles for delivery of antidiabetic peptides. *Journal of Controlled Release*, *334*, 1-10. |
| 1. Eissa, N. G., Elsabahy, M., & Allam, A. (2021). Engineering of smart nanoconstructs for delivery of glucagon-like peptide-1 analogs. *International Journal of Pharmaceutics*, *597*, 120317. |
| 1. Ando, H., Emam, S. E., Kawaguchi, Y., Shimizu, T., Ishima, Y., Eshima, K., & Ishida, T. (2021). Increasing tumor Extracellular pH by an oral alkalinizing agent improves antitumor responses of Anti-PD-1 antibody: Implication of relationships between serum bicarbonate concentrations, urinary pH, and therapeutic outcomes. *Biological and Pharmaceutical Bulletin*, *44*(6), 844-852. |
| 1. Qelliny, M. R., Shimizu, T., Elsadek, N. E., Emam, S. E., Takata, H., Fathalla, Z. M., Hussein, A. K., Khaled, K. A., Ando, H., Ishima, Y., & Ishida, T. (2021). Incorporating Gangliosides into PEGylated cationic liposomes that complexed DNA attenuates Anti-PEG antibody production but not Anti-DNA antibody production in mice. *Molecular Pharmaceutics*, *18*(6), 2406-2415. |
| 1. Ohashi, E., Karanjit, S., Nakayama, A., Takeuchi, K., Emam, S. E., Ando, H., Ishida, T., & Namba, K. (2021). Efficient construction of the hexacyclic ring core of palau'amine: The pKa concept for proceeding with unfavorable equilibrium reactions. *Chemical Science*, *12*(36), 12201-12210. |
| 1. Cordeiro, A. S., Patil-Sen, Y., Shivkumar, M., Patel, R., Khedr, A., & Elsawy, M. A. (2021). Nanovaccine delivery approaches and advanced delivery systems for the prevention of viral infections: From development to clinical application. *Pharmaceutics*, *13*(12), 2091. |
| 1. Ayoub, A. M., Amin, M. U., Ambreen, G., Dayyih, A. A., Abdelsalam, A. M., Somaida, A., Engelhardt, K., Wojcik, M., Schäfer, J., & Bakowsky, U. (2021). Photodynamic and antiangiogenic activities of parietin liposomes in triple negative breast cancer. *Biomaterials Advances*, 112543. |
| 1. Abu Dayyih, A., Alawak, M., Ayoub, A. M., Amin, M. U., Abu Dayyih, W., Engelhardt, K., Duse, L., Preis, E., Brüßler, J., & Bakowsky, U. (2021). Thermosensitive liposomes encapsulating hypericin: Characterization and photodynamic efficiency. *International Journal of Pharmaceutics*, *609*, 121195. |
| 1. Abdelsalam, A. M., Somaida, A., Ambreen, G., Ayoub, A. M., Tariq, I., Engelhardt, K., Garidel, P., Fawaz, I., Amin, M. U., Wojcik, M., & Bakowsky, U. (2021). Surface tailored zein as a novel delivery system for hypericin: Application in photodynamic therapy. *Materials Science and Engineering: C*, *129*, 112420. |
| 1. Abdelsalam, A. M., Somaida, A., Ayoub, A. M., Alsharif, F. M., Preis, E., Wojcik, M., & Bakowsky, U. (2021). Surface-tailored zein nanoparticles: Strategies and applications. Pharmaceutics, 13(9), 1354. |
| 1. Zidan, A., & Broering, D. (2021). Safety and outcome of 248 consecutive robotic donor hepatectomy, single center experience. HPB, 23, S692-S693. |
| 1. Melocchi, A., Briatico-Vangosa, F., Uboldi, M., Parietti, F., Turchi, M., Von Zeppelin, D., Maroni, A., Zema, L., Gazzaniga, A., & Zidan, A. (2021). Quality considerations on the pharmaceutical applications of fused deposition modeling 3D printing. International Journal of Pharmaceutics, 592, 119901. |
| 1. Zidan, A., Aljudaibi, S., Wali, N., Sturdevant, M., Shagrani, M., Algoufi, T., & Broering, D. C. (2021). Feasibility of full-right/full-left split-liver transplant in pediatric deceased donors for pediatric recipients. Experimental and Clinical Transplantation, 19(3), 273-275. |
| 1. Troisi, R. I., Elsheikh, Y., Alnemary, Y., Zidan, A., Sturdevant, M., Alabbad, S., Algoufi, T., Shagrani, M., & Broering, D. C. (2020). Safety and feasibility report of robotic-assisted left lateral Sectionectomy for pediatric living donor liver transplantation: A comparative analysis of learning curves and mastery achieved with the Laparoscopic approach. *Transplantation*, *105*(5), 1044-1051. |
| 1. Hany, M., Ibrahim, M., Zidan, A., Samir, M., Elsherif, A., Selema, M., Sharaan, M., & Elhashash, M. (2021). Role of primary use of mega stents alone and combined with other endoscopic procedures for early leak and stenosis after bariatric surgery, single-institution experience. *Obesity Surgery*, *31*(5), 2050-2061. |
| 1. idan, A., Sturdevant, M., Elsarawy, A., Hassan, R., Alabbad, S., Alghamdi, S., Bzeizi, K., & Broering, D. C. (2021). Living donor liver transplantation in septuagenarians: Better late than never. *Clinical Transplantation*, *35*(6). |
| 1. Kamal, N. S., Krishnaiah, Y. S., Xu, X., Zidan, A. S., Raney, S. G., Cruz, C. N., & Ashraf, M. (2021). Corrigendum to “Identification of critical formulation parameters affecting the in vitro release, permeation, and rheological properties of the acyclovir topical cream” [Int. J. Pharm. 590 (2020) 119914]. *International Journal of Pharmaceutics*, *604*, 120787. |
| 1. Ghammraoui, B., Zidan, A., Alayoubi, A., Zidan, A., & Glick, S. J. (2021). Fabrication of microcalcifications for insertion into phantoms used to evaluate X-ray breast imaging systems. *Biomedical Physics & Engineering Express*, *7*(5), 055021. |
| 1. Zakaria, H. M., Alobthani, S., Elsarawy, A., Saleh, Y., Zidan, A., Alabbad, S., Elsheikh, Y., Algoufi, T., Shagrani, M., Troisi, R. I., & Broering, D. (2021). Large for size in pediatrics liver transplant using left lateral segment grafts: A single center experience. *Pediatric Transplantation*, *25*(6). |
| 1. Ahmed, T. A., Felimban, R. I., Tayeb, H. H., Rizg, W. Y., Alnadwi, F. H., Alotaibi, H. A., Alhakamy, N. A., Abd-Allah, F. I., Mohamed, G. A., Zidan, A. S., & El-Say, K. M. (2021). Development of multi-compartment 3D-Printed tablets loaded with self-nanoemulsified formulations of various drugs: A new strategy for personalized medicine. *Pharmaceutics*, *13*(10), 1733. |
| 1. Ibrahim, M., Hany, M., Zidan, A., Abouelnasr, A. A., & Abu-Sheasha, G. A. (2021). Laparoscopic sleeve gastrectomy versus Laparoscopic greater curvature plication: A long-term follow-up study on the complications, body mass index changes, endoscopic findings and causes of revision. *Obesity Surgery*, *31*(12), 5275-5285. |
| 1. Vishwa, B., Moin, A., Gowda, D. V., Rizvi, S. M., Hegazy, W. A., Abu Lila, A. S., Khafagy, E., & Allam, A. N. (2021). Pulmonary targeting of Inhalable Moxifloxacin Microspheres for effective management of tuberculosis. *Pharmaceutics*, *13*(1), 79. |
| 1. Bhosale, R. R., Osmani, R. A., Abu Lila, A. S., Khafagy, E., Arab, H. H., Gowda, D. V., Rahamathulla, M., Hani, U., Adnan, M., & Gangadharappa, H. V. (2021). Ghatti gum-base Graft copolymer: A plausible platform for pH-controlled delivery of antidiabetic drugs. *RSC Advances*, *11*(24), 14871-14882. |
| 1. Al Saqr, A., Wani, S. U., Gangadharappa, H. V., Aldawsari, M. F., Khafagy, E., & Lila, A. S. (2021). Enhanced cytotoxic activity of docetaxel-loaded silk fibroin nanoparticles against breast cancer cells. *Polymers*, *13*(9), 1416. |
| 1. Aldawsari, M. F., Alalaiwe, A., Khafagy, E., Al Saqr, A., Alshahrani, S. M., Alsulays, B. B., Alshehri, S., Abu Lila, A. S., Danish Rizvi, S. M., & Hegazy, W. A. (2021). Efficacy of SPG-ODN 1826 Nanovehicles in inducing M1 phenotype through TLR-9 activation in murine alveolar J774A.1 cells: Plausible nano-immunotherapy for lung carcinoma. *International Journal of Molecular Sciences*, *22*(13), 6833. |
| 1. Khayyat, A. N., Abbas, H. A., Mohamed, M. F., Asfour, H. Z., Khayat, M. T., Ibrahim, T. S., Youns, M., Khafagy, E., Abu Lila, A. S., Safo, M. K., & Hegazy, W. A. (2021). Not only antimicrobial: Metronidazole mitigates the virulence of Proteus mirabilis isolated from macerated diabetic foot ulcer. *Applied Sciences*, *11*(15), 6847. |
| 1. Moin, A., Wani, S. U., Osmani, R. A., Abu Lila, A. S., Khafagy, E., Arab, H. H., Gangadharappa, H. V., & Allam, A. N. (2021). Formulation, characterization, and cellular toxicity assessment of tamoxifen-loaded silk fibroin nanoparticles in breast cancer. *Drug Delivery*, *28*(1), 1626-1636. |
| 1. Al Saqr, A., Wani, S. U., Gangadharappa, H. V., Aldawsari, M. F., Khafagy, E., & Lila, A. S. (2021). Enhanced cytotoxic activity of docetaxel-loaded silk fibroin nanoparticles against breast cancer cells. *Polymers*, *13*(9), 1416. |
| 1. Shimizu, T., Awata, M., Abu Lila, A. S., Yoshioka, C., Kawaguchi, Y., Ando, H., Ishima, Y., & Ishida, T. (2021). Complement activation induced by PEG enhances humoral immune responses against antigens encapsulated in PEG-modified liposomes. *Journal of Controlled Release*, *329*, 1046-1053. |
| 1. Al Saqr, A., Khafagy, E., Alalaiwe, A., Aldawsari, M. F., Alshahrani, S. M., Anwer, M. K., Khan, S., Lila, A. S., Arab, H. H., & Hegazy, W. A. (2021). Synthesis of gold nanoparticles by using green machinery: Characterization and in vitro toxicity. *Nanomaterials*, *11*(3), 808. |
| 1. Abu Lila, A. S., Soliman, M. S., Kiran, H., Gangadharappa, H., Younes, K. M., Khafagy, E., Shehata, T. M., Ibrahim, M. M., & Abdallah, M. H. (2021). Tamoxifen-loaded functionalized graphene nanoribbons for breast cancer therapy. *Journal of Drug Delivery Science and Technology*, *63*, 102499. |
| 1. Emam, S. E., Elsadek, N. E., Abu Lila, A. S., Takata, H., Kawaguchi, Y., Shimizu, T., Ando, H., Ishima, Y., & Ishida, T. (2021). Anti-PEG IgM production and accelerated blood clearance phenomenon after the administration of PEGylated exosomes in mice. *Journal of Controlled Release*, *334*, 327-334. |
| 1. Ando, H., Mochizuki, T., Lila, A. S., Akagi, S., Tajima, K., Fujita, K., Shimizu, T., Ishima, Y., Matsushima, T., Kusano, T., & Ishida, T. (2021). Doxorubicin embedded into Nanofibrillated bacterial cellulose (NFBC) produces a promising therapeutic outcome for Peritoneally metastatic gastric cancer in mice models via Intraperitoneal direct injection. *Nanomaterials*, *11*(7), 1697. |
| 1. Abdallah, M. H., Abu Lila, A. S., Unissa, R., Elsewedy, H. S., Elghamry, H. A., & Soliman, M. S. (2021). Preparation, characterization and evaluation of anti-inflammatory and anti-nociceptive effects of brucine-loaded nanoemulgel. *Colloids and Surfaces B: Biointerfaces*, *205*, 111868. |
| 1. Abu Lila, A. S., Abdallah, M. H., Wani, S. U., Gangadharappa, H., Younes, K. M., Khafagy, E., Shehata, T. M., & Soliman, M. S. (2021). Folic acid-conjugated raloxifene-loaded graphene-based nanocarrier: Fabrication, characterization and antitumor screening. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, *625*, 126971. |
| 1. Abdallah, M. H., Lila, A. S., Unissa, R., Elsewedy, H. S., Elghamry, H. A., & Soliman, M. S. (2021). Brucine-loaded Ethosomal gel: Design, optimization, and anti-inflammatory activity. *AAPS PharmSciTech*, *22*(8). |
| 1. Khayyat, A. N., Abbas, H. A., Khayat, M. T., Shaldam, M. A., Askoura, M., Asfour, H. Z., Khafagy, E., Abu Lila, A. S., Allam, A. N., & Hegazy, W. A. (2021). Secnidazole is a promising imidazole mitigator of Serratia marcescens virulence. *Microorganisms*, *9*(11), 2333. |
| 1. Hegazy, W. A., Rajab, A. A., Abu Lila, A. S., & Abbas, H. A. (2021). Anti-diabetics and antimicrobials: Harmony of mutual interplay. *World Journal of Diabetes*, *12*(11), 1832-1855. |
| 1. Lila, A. S., Abdallah, M. H., Khafagy, E., Shehata, T. M., Soliman, M. S., Younes, K. M., Omran, M., & Gad, S. (2021). Design, synthesis and cytotoxic evaluation of 2-amino-4- aryl-6-substituted pyridine-3,5-dicarbonitrile derivatives. *Tropical Journal of Pharmaceutical Research*, *20*(10), 2127-2133. |
| 1. Askoura, M., Almalki, A. J., Lila, A. S., Almansour, K., Alshammari, F., Khafagy, E., Ibrahim, T. S., & Hegazy, W. A. (2021). Alteration of Salmonella enterica virulence and host pathogenesis through targeting sdiA by using the CRISPR-cas9 system. *Microorganisms*, *9*(12), 2564. |
| 1. Sawyer, S. W., Takeda, K., Alayoubi, A., Mirdamadi, E., Zidan, A., Bauer, S. R., & Degheidy, H. (2022). 3D bioprinting optimization of human mesenchymal stromal cell Laden gelatin-alginate-collagen bioink. Biomedical Materials, 18(1), 015016. |
| 1. Awad, A., Goyanes, A., Basit, A. W., Zidan, A. S., Xu, C., Li, W., Narayan, R. J., & Chen, R. K. (2022). A review of state-of-the-Art on enabling additive manufacturing processes for precision medicine. Journal of Manufacturing Science and Engineering, 145(1). |
| 1. Hassan, R. A., Zidan, A., Jabir, M. A., Abdelshafy, M., Abdallah, M., & Taha, A. M. (2022). Risk factors predicting the development of a pancreatic fistula following pancreaticoduodenectomy: A retrospective cohort study. International Journal of Surgery Open, 45, 100509. |
| 1. Zidan, A., Kotamarthy, L., Ramachandran, R., Ashraf, M., & O'Connor, T. (2022). Optimization of screw design for continuous wet granulation: A case study of metoprolol succinate ER tablets. International Journal of Pharmaceutics, 623, 121964. |
| 1. Joharji, H., Alaidaros, F., Koujan, H., Hamad, A., Almaghrabi, R. S., Zidan, A., Broering, D., & Al-Jedai, A. (2022). A case report of successful use of twice-daily Letermovir in the treatment of resistant cytomegalovirus in a small bowel transplant recipient. Transplantation Proceedings, 54(6), 1679-1681. |
| 1. Elfakhri, K. H., Niu, M., Ghosh, P., Ramezanli, T., Raney, S. G., Ahmed, S., Willett, D. R., Yilmaz, H., Ashraf, M., & Zidan, A. S. (2022). Physicochemical and structural evaluation of microparticles in tretinoin topical gels. International Journal of Pharmaceutics, 620, 121748. |
| 1. Kotamarthy, L., Feng, X., Alayoubi, A., Kumar Bolla, P., Ramachandran, R., Ashraf, M., O'Connor, T., & Zidan, A. (2022). Switching from batch to continuous granulation: A case study of metoprolol succinate ER tablets. International Journal of Pharmaceutics, 617, 121598. |
| 1. Alayoubi, A., Zidan, A., Asfari, S., Ashraf, M., Sau, L., & Kopcha, M. (2022). Mechanistic understanding of the performance of personalized 3D-printed cardiovascular polypills: A case study of patient-centered therapy. International Journal of Pharmaceutics, 617, 121599. |
| 1. Abdallah, M. H., Elghamry, H. A., Khalifa, N. E., Khojali, W. M., Khafagy, E., Lila, A. S., El-Horany, H. E., & El-Housiny, S. (2022). Ginger extract-loaded sesame oil-based Niosomal Emulgel: Quality by design to ameliorate anti-inflammatory activity. Gels, 8(11), 737. |
| 1. Abdallah, M. H., Elghamry, H. A., Khalifa, N. E., Khojali, W. M., Khafagy, E., Lila, A. S., El-Horany, H. E., & El-Housiny, S. (2022). Ginger extract-loaded sesame oil-based Niosomal Emulgel: Quality by design to ameliorate anti-inflammatory activity. Gels, 8(11), 737. |
| 1. Syed, R. U., Moni, S. S., Lila, A. S., Abdallah, M. H., Abouzied, A. S., Banu, H., Alreshidi, K. S., Alrashidi, B. M., Hadi, M. A., El-Horany, H., Abdelwahab, S. I., & Taha, M. M. (2022). Spectral analysis and Antiulcer potential of lactuca sativa through the amelioration of proinflammatory cytokines and Apoptosis markers. Life, 12(10), 1641. |
| 1. Unissa, R., Moni, S. S., Banu, H., Alrahef, S. S., Alrahef, S. S., Alenezi, T. K., Abdallah, M. H., Abu Lila, A. S., El-Horany, H., Abouzied, A. S., Abdelwahab, S. I., & Thaha, M. M. (2022). Anti-ulcer properties, cytokines, and apoptosis regulatory effects of olea europaea leaves from hail province, Saudi Arabia. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 50(3), 12891. |
| 1. Abu Lila, A. S., Huwaimel, B., Alobaida, A., Hussain, T., Rafi, Z., Mehmood, K., Abdallah, M. H., Hagbani, T. A., Rizvi, S. M., Moin, A., & Ahmed, A. F. (2022). Delafloxacin-capped gold nanoparticles (DFX-aunps): An effective antibacterial nano-formulation of Fluoroquinolone antibiotic. Materials, 15(16), 5709 |
| 1. Abdallah, M. H., Abdelnabi, D. M., & Elghamry, H. A. (2022). Response surface methodology for optimization of Buspirone hydrochloride-loaded in situ gel for pediatric anxiety. Gels, 8(7), 395. |
| 1. Al Hagbani, T., Rizvi, S. M., Hussain, T., Mehmood, K., Rafi, Z., Moin, A., Abu Lila, A. S., Alshammari, F., Khafagy, E., Rahamathulla, M., & Abdallah, M. H. (2022). Cefotaxime mediated synthesis of gold nanoparticles: Characterization and antibacterial activity. Polymers, 14(4), 771. |
| 1. Hagbani, T. A., Yadav, H., Moin, A., Lila, A. S., Mehmood, K., Alshammari, F., Khan, S., Khafagy, E., Hussain, T., Rizvi, S. M., & Abdallah, M. H. (2022). Enhancement of Vancomycin potential against pathogenic bacterial strains via gold nano-formulations: A nano-antibiotic approach. Materials, 15(3), 1108. |
| 1. Abdallah, M. H., Abu Lila, A. S., Shawky, S. M., Almansour, K., Alshammari, F., Khafagy, E., & Makram, T. S. (2022). Experimental design and optimization of nano-transfersomal gel to enhance the hypoglycemic activity of Silymarin. Polymers, 14(3), 508 |
| 1. Shehata, T. M., Almostafa, M. M., & Elsewedy, H. S. (2022). Development and optimization of Nigella sativa Nanoemulsion loaded with Pioglitazone for hypoglycemic effect. Polymers, 14(15), 3021 |
| 1. Elsewedy, H. S., Shehata, T. M., & Soliman, W. E. (2022). Tea tree oil nanoemulsion-based Hydrogel vehicle for enhancing topical delivery of neomycin. Life, 12(7), 1011. |
| 1. Elsewedy, H. S., Shehata, T. M., Almostafa, M. M., & Soliman, W. E. (2022). Hypolipidemic activity of olive oil-based Nanostructured lipid carrier containing Atorvastatin. Nanomaterials, 12(13), 2160. |
| 1. Elsewedy, H. S., Shehata, T. M., & Soliman, W. E. (2022). Shea butter potentiates the anti-bacterial activity of Fusidic acid incorporated into solid lipid Nanoparticle. Polymers, 14(12), 2436. |
| 1. Shehata, T. M., & Elsewedy, H. S. (2022). Paclitaxel and myrrh oil combination therapy for enhancement of cytotoxicity against breast cancer; QbD approach. Processes, 10(5), 907. |
| 1. Haroun, M., Elsewedy, H. S., Shehata, T. M., Tratrat, C., Al Dhubiab, B. E., Venugopala, K. N., Almostafa, M. M., Kochkar, H., & Elnahas, H. M. (2022). Significant of injectable brucine PEGylated niosomes in treatment of MDA cancer cells. Journal of Drug Delivery Science and Technology, 71, 103322. |
| 1. Shehata, T. M., Elnahas, H. M., & Elsewedy, H. S. (2022). Development, characterization and optimization of the anti-inflammatory influence of meloxicam loaded into a eucalyptus oil-based Nanoemulgel. Gels, 8(5), 262. |
| 1. Almostafa, M. M., Elsewedy, H. S., Shehata, T. M., & Soliman, W. E. (2022). Novel formulation of Fusidic acid incorporated into a myrrh-oil-Based Nanoemulgel for the enhancement of skin bacterial infection treatment. Gels, 8(4), 245. |
| 1. Musallam, A. A., Mahdy, M. A., Elnahas, H. M., & Aldeeb, R. A. (2022). Optimization of mirtazapine loaded into mesoporous silica nanostructures via box-behnken design: in-vitro characterization and <i>in-vivo</i> assessment. Drug Delivery, 29(1), 1582-1594. |
| 1. Eisa, A. M., El-Megrab, N. A., & El-Nahas, H. M. (2022). Formulation and evaluation of fast dissolving tablets of haloperidol solid dispersion. Saudi Pharmaceutical Journal, 30(11), 1589-1602. |
| 1. Ibrahim, T. M., Ayoub, M. M., El-Bassossy, H. M., El-Nahas, H. M., & Gomaa, E. (2022). Investigation of alogliptin-loaded in situ gel implants by 23 factorial design with glycemic assessment in rats. Pharmaceutics, 14(9), 1867. |
| 1. Elsadek, N. E., Nagah, A., Ibrahim, T. M., Chopra, H., Ghonaim, G. A., Emam, S. E., Cavalu, S., & Attia, M. S. (2022). Electrospun nanofibers revisited: An update on the emerging applications in Nanomedicine. Materials, 15(5), 1934. |
| 1. Ouerdane, Y., Hassaballah, M. Y., Nagah, A., Ibrahim, T. M., Mohamed, H. A., El-Baz, A., & Attia, M. S. (2022). Exosomes in Parkinson: Revisiting their pathologic role and potential applications. Pharmaceuticals, 15(1), 76. |
| 1. Ouerdane, Y., Khlidj, Y., Attia, M. S., & Korissi, R. (2022). Calcitonin gene-related peptide: A biomarker for stroke in SARS-Cov-2 infection? Medical Hypotheses, 162, 110807. |
| 1. Bahbah, E. I., Nafady, M. H., Sayed, Z. S., Abdelkawy, D. A., Shebl, M. E., Elsayed, R. A., Ashraf, G. M., Perveen, A., & Attia, M. S. (2022). The effect of gut microbe Dysbiosis on the pathogenesis of Alzheimer'sDisease (AD) and related conditions. Current Alzheimer Research, 19(4), 274-284. |
| 1. Sayed, A., Munir, M., Attia, M. S., Alghamdi, B. S., Ashraf, G. M., Bahbah, E. I., & Elfil, M. (2022). Galectin-3: A novel marker for the prediction of stroke incidence and clinical prognosis. Mediators of Inflammation, 2022, 1-10. |
| 1. Chopra, H., Bibi, S., Mishra, A. K., Tirth, V., Yerramsetty, S. V., Murali, S. V., Ahmad, S. U., Mohanta, Y. K., Attia, M. S., Algahtani, A., Islam, F., Hayee, A., Islam, S., Baig, A. A., & Emran, T. B. (2022). Nanomaterials: A promising therapeutic approach for cardiovascular diseases. Journal of Nanomaterials, 2022, 1-25. |
| 1. Gomaa, E., Attia, M. S., Ghazy, F. S., Hassan, A. E., & Hasan, A. A. (2022). Pump-free electrospraying: A novel approach for fabricating soluplus®-based solid dispersion nanoparticles. Journal of Drug Delivery Science and Technology, 67, 103027. |
| 1. Awad, A., Goyanes, A., Basit, A. W., Zidan, A. S., Xu, C., Li, W., Narayan, R. J., & Chen, R. K. (2022). A review of state-of-the-Art on enabling additive manufacturing processes for precision medicine. *Journal of Manufacturing Science and Engineering*, *145*(1). |
| 1. Eldehna, W. M., El Hassab, M. A., Abdelshafi, N. A., Al-Zahraa Sayed, F., Fares, M., Al-Rashood, S. T., Elsayed, Z. M., Abdel-Aziz, M. M., Elkaeed, E. B., Elsabahy, M., & Eissa, N. G. (2022). Development of potent nanosized isatin-isonicotinohydrazide hybrid for management of mycobacterium tuberculosis. *International Journal of Pharmaceutics*, *612*, 121369. |
| 1. Gomaa, E., Fathi, H. A., Eissa, N. G., & Elsabahy, M. (2022). Methods for preparation of nanostructured lipid carriers. Methods, 199, 3-8. |
| 1. Abdel-Hameed, M., Farrag, N. S., Aglan, H., Amin, A. M., & Mahdy, M. (2022). Improving the tumor targeting efficiency of epirubicin via conjugation with radioiodinated poly (vinyl alcohol)-coated silver nanoparticles. Journal of Drug Delivery Science and Technology, 76, 103781. |
| 1. Gharib, K. M., El Sharkawi, Y. A., Elmegrab, N. A., & Ibrahim, A. S. (2022). Assessment of role of topical methotrexate in the treatment of vitiligo: Review article. *The Egyptian Journal of Hospital Medicine*, *89*(1), 4721-4723. |

**ثالثا معوقات التنفيد:**

1. عدم توفر بعض الاجهزة داخل القسم او الكلية او الجامعة مما يضطر الباحث اللجوء الى المراكز الخاصة ذات التكلفة الباهظة.
2. قلة الموارد المالية.

**رئيس قسم الصيدلانيات**

أ.د/ ناجية أحمد الأمين المجراب