Faculty of Pharmacy, Universiti Malaya

Research Publications 2025

Ahmad, F., Hanif, A., Ali, S., Iqbal, M. A., Kanwal, R., Hussain, I., Khalid, M., Nadeem, H., Ling, C. K., Mahmood, S., Majeed, A., & Ahmad, A. (2025). Biochemical, toxicological, and in silico aspects of Holm oak (Quercus baloot Griff.): A rich source of natural bioactive compounds. Chemistry & Biodiversity, 22(12), e01107. https://doi.org/10.1002/cbdv.202501107.

Ahn, S., Wan Kamarul Zaman, W. S., Goh, S.K., & Chan, C.-K. (2025). Relationship of sleep quality, BMI, dietary, and socioeconomic attributes among young adults: A systematic review. *Journal of Health Psychology*. Advance online publication. https://doi.org/10.1177/13591053251365446

Ait Gacem, S., Huri, H. Z., Wahab, I. A., & Abduelkarem, A. R. (2025). Investigating digital determinants shaping pharmacists' preparedness for interoperability and health informatics practice evolution: A systematic review. International Journal of Clinical Pharmacy, 47(4), 921–931. https://doi.org/10.1007/s11096-024-01851-6

Alawi, M., Hashim, N. M., Ahmad, N., Mahmood, S., & Ge, Y. (2025). A systematic review of advances in plant-based phospholipid liposomes in breast cancer therapy: Characterization, innovations, clinical applications, and future directions. Pharmaceuticals, 18(9), Article 1288. https://doi.org/10.3390/ph18091288

Alawi, M., Hilles, A. R., Kumar, M., Ansari, M. D., & Mahmood, S. (2025). Lipid-polymer hybrid nanoparticles: A cutting-edge frontier in breast cancer treatment strategies. *Nanomedicine*, *20*(14), 1775–1798. https://doi.org/10.1080/17435889.2025.2523730

Alfaqeeh, M., Abdullah, R., Zakiyah, N., Suwantika, A. A., Postma, M. J., Rahmawati, F., Widayanti, A. W., & Ibrahim, B. (2025). Medication adherence and contributing factors in patients with heart failure within the Middle East: A systematic review. *Global Heart*, *20*(1), Article 47. https://doi.org/10.5334/gh.1431

Alfatama, M., Mat Rashid, Z., Harasstani, O. A., Alkhatib, H., Nawaz, A., & Choukaife, H. (2025). Formulation and evaluation of taste-masked curcumin nanoparticles for improved antioxidant and anticancer efficacy. *Scientific Reports*, *15*(1), Article 41055. https://doi.org/10.1038/s41598-025-25022-3

Ali, M., Rehman, I. U., Lee, K. S., et al. (2025). Gaza's health emergency: Impact of armed conflict and its global health repercussions. *Globalization and Health*, *21*, Article 65. https://doi.org/10.1186/s12992-025-01161-0

Ali, M., Wahab, I. A., Zaman Huri, H., et al. (2025). Personalised learning in higher education for health sciences: A scoping review. *BMC Medical Education*, *25*, Article 969. https://doi.org/10.1186/s12909-025-07565-1

Al-Japairai, K., Almurisi, S. H., Alheibshy, F., Abdul-Halim, N., & Mahmood, S. (2025). Rapid dissolving microneedle patch integrated with benidipine-loaded nanotransfersomes for transdermal drug delivery: Optimization, characterizations, and preclinical bioavailability assessment. Drug Delivery and Translational Research, 1-21. https://doi.org/10.1007/s13346-025-01976-9

Almayahi, B. A., Abdul Sani, S. F., Tajuddin, H. A., Ng, M. P., Mat Saad, H., Widodo, R. T., & Sim, K. S. (2025). Silver-manganese nanocomposites: Synthesis, characterization, and cytotoxic potential in cancer therapy. Inorganic Chemistry Communications, 178(Part 1), 114402. https://doi.org/10.1016/j.inoche.2025.114402.

Anasamy, T., Foo, Y. Y., Saw, W. S., Kwa, Y. C., Wei, C., Heh, C. H., Chee, C. F., Kiew, L. V., & Chung, L. Y. (2026). Multifaceted anticancer mechanisms of tribenzyltin carboxylates: DNA minor groove targeting and inhibition of key enzymes in DNA replication, nucleotide synthesis, and redox homeostasis. Naunyn-Schmiedeberg's Archives of Pharmacology, 399(5), 7505-7531. https://doi.org/10.1007/s00210-025-04890-6.

Apparoo, Y., Phan, C. W., Kuppusamy, U. R., & Wei Chiang, E. C. (2025). Ergothioneine-rich *Lentinula edodes* mushroom extract restores mitochondrial functions in senescent HT22 cells. *Neuroscience*, *565*, 277–291. https://doi.org/10.1016/j.neuroscience.2024.11.082

Aththar, A. F., Raushani, F., Sekaringtyas, F. C., Muttaqien, S. E., Setyawati, D. R., Pratiwi, R. D., Rifa'i, M., Rahmawati, S. I., Putra, M. Y., Ahmadi, P., Indriani, D. W., Ling, J. T. S., Widyastuti, E., Bayu, A., & Rosyidah, A. (2025). Palm oil nanoemulsion enhances tocotrienol stability, antioxidant, and selective anti-melanoma activity. *Naunyn-Schmiedeberg's Archives of Pharmacology*. Advance online publication. https://doi.org/10.1007/s00210-025-04296-4

Bakar, S. N., Kiew, L. V., Chung, L. Y., Burgess, K., & Kue, C. S. (2025). Cancer immunotherapeutic targeting tropomyosin receptor kinase C (TrkC) through its conjugate and cyclophosphamide. *Immunopharmacology and Immunotoxicology*. Advance online publication. https://doi.org/10.1080/08923973.2025.2572078

Batool, S., Hussain, I., Sheikh, M., Iqbal, M. A., Chin, K. L., Mahmood, S., Aftab, M., Khalid, M., Ahmad, F., Shaheen, N., Ali, H. T., & Rahman, M. A. (2025). Unveiling the anticancer potential of Conyza bonariensis: Integrative analysis through LC-MS, DFT, and molecular docking. New Journal of Chemistry, 49(31), 13474–13488. https://doi.org/10.1039/D5NJ01089F

Beishenaliev, A., Loke, Y. L., Lin, C.-Y., Goh, S. J., Seema, J., Huang, Y., Lim, X. Y., Chen, Y.-W., Leo, B. F., Chang, C.-Y., Chung, L. Y., Chang, C.-C., Teo, Y. Y., Hwang, D., & Kiew, L. V. (2025). Ultrasmall gold nanoparticles as "three-in-one" enzyme-mimicking nanocatalysts for combined sonodynamic/catalytic therapy in breast cancer. *ACS Applied Materials & Interfaces*. Advance online publication. https://doi.org/10.1021/acsami.5c15866

Bin Wan Mohd Nor, W., Kwong, S., Fuzi, A., Said, N., Jamil, A., Lee, Y., et al. (2025). Linking microRNA to metabolic reprogramming and gut microbiota in the pathogenesis of colorectal cancer (Review). *International Journal of Molecular Medicine*, *55*, Article 46. https://doi.org/10.3892/ijmm.2025.5487

Biswas, M., Murad, M. A., Ershadian, M., Kali, M. S. K., Sim, M. S., Ibrahim, B., & Sukasem, C. (2025). Prevalence of risk phenotypes associated with *CYP2C9* *2, *3, and *VKORC1* c.-1639G>A genetic polymorphisms in world populations: Implications in clinical practice. *Frontiers in Pharmacology*, *16*, Article 1597379. https://doi.org/10.3389/fphar.2025.1597379

Chan, Y. L., Widodo, R. T., Ming, L. C., Khan, A., Abbas, S. A., Ping, N. Y., Sofian, Z. M., & Kanakal, M. M. (2025). Review on 3D printing filaments used in fused deposition modeling method for dermatological preparations. *Molecules*, *30*(11), Article 2411. https://doi.org/10.3390/molecules30112411

Chauhan, A., Thakur, V., Dhiman, S., Singh, T. G., Kumar, M., Mahmood, S., Sanapalli, B. K. R., & Awasthi, A. (2025). Targeting diabetic wounds with nanostructured lipid carriers: A pathogenesis-guided, drug-repurposing approach. Journal of Drug Delivery Science and Technology, 116, Article 107923. https://doi.org/10.1016/j.jddst.2025.107923

Chellathurai, M. S., Mahmood, S., Sofian, Z. M., Hilles, A. R., & Mandal, A. (2025). Self-assembled multiple layered chitosan-insulin nanoparticles-integrated into a bi-layer dissolving microneedle for sustained delivery. International Journal of Biological Macromolecules, 319(3), Article 145560. https://doi.org/10.1016/j.ijbiomac.2025.145560

Chong, N., Azwa, I., Amir Hassan, A., Mousavi, M., Wong, P. L., Ng, R. X., Saifi, R., Basri, S., Syed Omar, S. F., Walters, S. M., Collier, Z. K., Haddad, M. S., Altice, F. L., Kamarulzaman, A., & Earnshaw, V. A. (2025). Strengthening HIV activism among clinicians in Malaysia: A randomised controlled trial. AIDS and Behavior, 29(12), 3931–3939. https://doi.org/10.1007/s10461-025-04829-1

Das, A., Sengupta, P., Chatterjee, S., Khanam, J., Mondal, P. K., Romero, E. L., Manakhov, A. M., Thomas, S., Mahmood, S., & Ghosal, K. (2025). Development and evaluation of magnetite loaded alginate beads based nanocomposite for enhanced targeted analgesic drug delivery. Magnetochemistry, 11(2), Article 14. https://doi.org/10.3390/magnetochemistry11020014

Dass, R., Rani, P., Dureja, H., Mahmood, S., et al. (2025). Optimization and evaluation of itopride hydrochloride-loaded Eudragit S100/ethylcellulose gastroretentive electrospun nanofibers for the treatment of gastroesophageal reflux disease. *Journal of Pharmaceutical Innovation*, *20*, Article 225. https://doi.org/10.1007/s12247-025-10135-z

Dass, R., Rani, P., Kumar, D., Choudhary, N., Lohan, S., Mahmood, S., & Bhatia, M. (2026). Quality by design approach for optimization, in-vitro and in-vivo evaluation of compression-spheronized itopride hydrochloride loaded gastroretentive pellets for the treatment of gastroesophageal reflux disease. Naunyn-Schmiedeberg's Archives of Pharmacology, 399(3), 4305–4320. https://doi.org/10.1007/s00210-025-04728-1

Earnshaw, V. A., Collier, Z. K., Wong, P. L., Saifi, R., Chong, N., Ng, R. X., Azwa, I., Basri, S., Amir Hassan, A., Mousavi, M., Syed Omar, S. F., Walters, S., Haddad, M. S., Kamarulzaman, A., & Altice, F. L. (2025). Pilot randomized controlled trial to reduce HIV-related stigma among clinicians in Malaysia via Project ECHO®. AIDS Care, 37(8), 1313–1331. https://doi.org/10.1080/09540121.2025.2534539

Elaine, A. A., Othman, R., Mita, S. R., & Hasanah, A. N. (2025). Breaking boundaries in controlled release drug delivery system: The promise and potential of molecularly imprinted polymers. *Journal of Drug Delivery Science and Technology*, *111*, Article 107142. https://doi.org/10.1016/j.jddst.2025.107142

Faris Taufeq, F. Y., Nordin, M. L., & Katas, H. (2025). Upscaling, toxicity and efficacy of multifaceted dressing embedded with dsiRNA-loaded gold nanoparticles for enhancing diabetic wound treatment. *PLOS ONE*, *20*(9), Article e0327375. https://doi.org/10.1371/journal.pone.0327375

Fatemi, K., Lau, S. Y., Fatemi, R., Coorey, R., Heshmatipour, Z., Chung, L. Y., & Kiew, S. F. (2025). Paper-based biosensing using single-stranded oligonucleotide aptamers for enhanced food safety. *Journal of Food Composition and Analysis*, *141*, Article 107331. https://doi.org/10.1016/j.jfca.2025.107331

Fatemi, K., Lau, S. Y., Kiew, S. F., Heshmatipour, Z., Fatemi, R., Obayomi, K. S., Chung, L. Y., & Coorey, R. (2025). Development and characterization of a functionalized graphene oxide-based fluorescent aptasensor for point of care detection of foodborne *E. coli*. *Inorganic Chemistry Communications*, *181*, Article 115154. https://doi.org/10.1016/j.inoche.2025.115154

Gan, K. Z., Widodo, R. T., Chik, Z., Nordin, M. L., & Bin, L. K. (2025). Enhancement and evaluation of vardenafil hydrochloride trihydrate absorption in orodispersible tablet formulations: Establishment of in vitro, in vivo correlation and bioequivalence study. Chemico-Biological Interactions, 421, Article 111745. https://doi.org/10.1016/j.cbi.2025.111745

Goh, L. C., Chin, E. W., Tan, B. K. J., Gao, E. Y., Goh, S. S. L., Shunmugam, R. H., Kulasegarah, J., Abu Bakar, M. Z., & Toh, S. T. (2025). Impact of surgical intervention on obstructive sleep apnea (OSA) and body-mass index: A scoping review. Postgraduate Medicine, 137(5), 344–351. https://doi.org/10.1080/00325481.2025.2506981

Goh, S. S. L., Lai, P. S. M., Ramdzan, S. N., Tan, K. M., Goh, A. M. C., & Tan, M. P. (2025). A physician-pharmacist partnership intervention for deprescribing (P3iD) among older adults attending a falls and syncope clinic: Protocol for a randomised controlled trial. *PLOS ONE*, *20*(6), Article e0324565. https://doi.org/10.1371/journal.pone.0324565

Goh, S. S. L., Moy, F. M., Mat, S., Ali, S. M., Hoo, Z. X., Apparoo, S. G. R., & Tan, M. P. (2025). Influence of psychosocial and health-seeking behaviour on the risk of falling among persons living with type 2 diabetes in the Malaysian Elders Longitudinal Research (MELoR) cohort. Aging Clinical and Experimental Research, 37(1), Article 75. https://doi.org/10.1007/s40520-025-02961-5

Gopal, K., Khalid, R., & Mahmood, S. (2025). Dissolvable microneedles with their design, materials, and limitations in translation: A technical review. AAPS PharmSciTech, 27(1), Article 13. https://doi.org/10.1208/s12249-025-03246-w

Gopal, K., Mahmood, S., Sofian, Z. M., Hilles, A. R., & Hashim, N. M. (2025). Microneedle innovations in oral therapeutics: Transforming protein and peptide delivery. AAPS PharmSciTech, 26(5), Article 146. https://doi.org/10.1208/s12249-025-03127-2

Govindasamy, A., Wan Kamarul Zaman, W. S., Karman, S., Syed Nor, S. N., & Zakaria, R. (2025). Emerging applications and challenges in SPR-based biosensors for non-invasive quality assessment of Wharton's jelly-derived mesenchymal stem cells (WJ-MSCs) via secretome analysis. Advanced Healthcare Materials, 15(3), Article e02045. https://doi.org/10.1002/adhm.202502045

Haidar, M. A., Emad, N. A., Ansari, M. D., Ahmad, S., Alam, S., Yasmin, S., Saba, N., Aqil, M., & Sultana, Y. (2025). Optimized SNEDDS of riluzole for Alzheimer's disease: Enhancing solubility, bioavailability, and therapeutic efficacy in scopolamine-induced rats model. Journal of Cluster Science, 36(5), Article 191. https://doi.org/10.1007/s10876-025-02919-7

Hassanein, M., Zaman Huri, H., & Abduelkarem, A. (2025). User acceptability profiles of vaginal treatments among women with genitourinary syndrome of menopause. *PLOS ONE*, *20*(9), Article e0331110. https://doi.org/10.1371/journal.pone.0331110

Heryanto, C. M., Phan, C. W., Tan, Y. S., Saw, S. N., & Seow, E. K. (2025). Current knowledge on mushroom and mushroom-based product authentication: From DNA barcoding, chemometrics, to artificial intelligence. *Food Reviews International*, *41*(8), 2372–2387. https://doi.org/10.1080/87559129.2025.2480233

Hidrosollo, J. H., Liao, H., Yap, C. H., James, J. J., Lu, J., Tai, Y., Wei, C., Thuy, T. T. D., Chin, S. P., Tay, S. T., Chee, C. F., & Kao, C. Y. (2025). Indolenine-substituted pyrazole derivative 4e inhibits planktonic *Staphylococcus lugdunensis* growth and biofilm formation by disrupting purine biosynthesis and compromising cell wall and membrane integrity. *Antimicrobial Agents and Chemotherapy*, Article e00199-25. https://doi.org/10.1128/aac.00199-25

Hilles, A. R., Mahmood, S., Widodo, R. T., Azemi, A. K., Nordin, A. H., Mohamad Norpi, A. S., Abd Jalil, M. F., Sofian, Z. M., Mohamed, M., Hambali, K. A., Mohd Sani, N. I., Rashid, R., & Nordin, M. L. (2025). Cell membrane vaccine delivery system: A review of the recent advances against breast cancer. *International Journal of Pharmaceutics*, *681*, Article 125849. https://doi.org/10.1016/j.ijpharm.2025.125849

Jefnee, M. A. I., Kaur, M., Teo, C. H., Goh, S. S. L., Lai, P. S. M., Selvaraj, C. S., & Ramdzan, S. N. (2025). Effectiveness of online asthma training programmes to improve asthma management among school staff: A systematic review using the Kirkpatrick evaluation model. npj Primary Care Respiratory Medicine, 35(1), Article 45. https://doi.org/10.1038/s41533-025-00450-w

Kamil, R. M., Nyamathulla, S., & Mahmood, S. (2025). Peptides in wound healing: A comprehensive review of their roles, challenges, and hydrogel-based delivery systems. EXCLI Journal, 24, 1657–1689. https://doi.org/10.17179/excli2025-8778

Karusan, N. R., Tajuddin, H. A., Mat Radi, N. A., Karimah, R., Soesilawati, P., Mahmood, S., & Ahmad, N. (2025). Dual-drug nanocarriers for gout therapy: Targeted co-delivery of anti-inflammatory and urate-lowering agents: A review. EXCLI Journal, 24, 1555–1593. https://doi.org/10.17179/excli2025-8871

Khairi Wazien Pengiran Umar, A., Goh, H. P., Rizidah Murang, Z., Hermansyah, A., Rehman, I. U., Goh, K. W., Chee, K. F., & Ming, L. C. (2025). Exploring medicine classification and accessibility: A qualitative study. Journal of Pharmaceutical Policy and Practice, 18(1), Article 2426137. https://doi.org/10.1080/20523211.2024.2426137

Khairul Anuar, S. Z., Nordin, A. H., Nur Husna, S. M., Yusoff, A. H., Paiman, S. H., Md Noor, S. F., Nordin, M. L., Ali, S. N., & Nazir Syah Ismail, Y. M. (2025). Recent advances in recycling and upcycling of hazardous plastic waste: A review. *Journal of Environmental Management*, *380*, Article 124867. https://doi.org/10.1016/j.jenvman.2025.124867

Khalid, R., Mahmood, S., Mohamed Sofian, Z., Chik, Z., & Ge, Y. (2025). Development of rapidly dissolving microneedles integrated with valsartan-loaded nanoliposomes for transdermal drug delivery: In vitro and ex vivo evaluation. Pharmaceutics, 17(4), Article 483. https://doi.org/10.3390/pharmaceutics17040483

Khalid, R., Mahmood, S., Sofian, Z. M., Ge, Y., & Chik, Z. (2025). Rapid dissolvable microneedles integrated with felodipine-loaded liposome: Fabrication, characterizations, in vitro and ex vivo evaluation. Journal of Pharmaceutical Innovation, 20(6), Article 252. https://doi.org/10.1007/s12247-025-10116-2

Khan, S. S., Nawaz, A., Alam Shah, M. K., Latif, M. S., Haroon, M., Khan, A., & Elsayed, T. M. (2025). Formulation and characterization of isavuconazole-loaded chitosan/sodium alginate nanoparticles for dermal delivery: In vitro and in vivo evaluation for enhanced antifungal therapy. *Journal of Pharmaceutical Innovation*. Advance online publication. https://doi.org/10.1007/s12247-025-10052-1

Kondaveeti, S. B., Tripathi, A. K., Kumar, D., Kumar, A., Singh, T. G., Mahmood, S., Ghosal, K., Awasthi, A., & Kumar, M. (2025). Signalling pathways triggering therapeutic marine algae-derived natural polysaccharides for effective wound healing: A recent review. Carbohydrate Polymers, 369, Article 124253. https://doi.org/10.1016/j.carbpol.2025.124253

Kubota, T., Ngadimon, I. W., Ohseto, H., Viswanathan, S., Ravat, P., Acharya, M. K., Kuroda, N., Konomatsu, K., Obara, T., Jin, K., Aoki, M., & Nakasato, N. (2025). Predictive value of the polygenic risk score for developing epilepsy: A systematic review and meta-analysis. Epilepsy & Behavior, 169, Article 110438. https://doi.org/10.1016/j.yebeh.2025.110438

Kumar, M., Sethi, P., Shiekmydeen, J., Rastogi, S., Mahmood, S., Chopra, S., Thomas, S., Kumar, D., & Bhatia, A. (2025). A recent review on smart sensor-integrated wound dressings: Real-time monitoring and on-demand therapeutic delivery. International Journal of Biological Macromolecules, 313, Article 144251. https://doi.org/10.1016/j.ijbiomac.2025.144251

Li, S., Chik, Z., Faruqu, F. N., Mohd Hashim, N., Mohd Yusof, N. S., Fernandez Alarcon, J., & Ahmad, N. (2025). miRNAs and exosomes in psoriasis: Coordinating cytoskeleton dynamics and extracellular matrix remodeling. Frontiers in Cell and Developmental Biology, 13, Article 1608902. https://doi.org/10.3389/fcell.2025.1608902

Lokesh, B. V. S., Sreedharan Nair, R., Mohd Hashim, N. B., & Maw Shin, G. S. (2025). Targeted respiratory viral infection therapy using mucoadhesive nanodrug-polymer conjugates: A comprehensive review. *Journal of Biomaterials Science, Polymer Edition*. Advance online publication. https://doi.org/10.1080/09205063.2025.2574939

Mahmod, A. I., Govindaraju, K., Lokanathan, Y., Said, N. A. B. M., & Ibrahim, B. (2025). Exploring the potential of stem cells in modulating gut microbiota and managing hypertension. Stem Cells and Development, 34(5–6), 99–116. https://doi.org/10.1089/scd.2024.0195

Mat Ghani, N., Hong, K. W., Liew, Y. J. M., Lau, Y. Y., Yong, H. S., Tee, K. K., Chan, K. G., & Chua, K. O. (2025). Whole genome analysis revealed the role of blaOXA-23 and blaOXA-66 genes in carbapenem resistance of Acinetobacter baumannii strains. Pathogens and Global Health, 119(1–2), 10–21. https://doi.org/10.1080/20477724.2024.2442194

Mawazi, S. M., Ge, Y., & Widodo, R. T. (2025). Niosome preparation techniques and structure—An illustrated review. Pharmaceutics, 17(1), Article 67. https://doi.org/10.3390/pharmaceutics17010067

Ali, Q. M., Azemi, A. K., Nordin, S. H., Mustapha, S., & Nordin, M. L. (2025). Modulatory effects of phytoestrogens, fresh soy milk, and annexin A1 on cell cycle regulation and apoptotic pathways in human leukemic cells and peripheral blood mononuclear cells. Biocatalysis and Agricultural Biotechnology, 69, Article 103784. https://doi.org/10.1016/j.bcab.2025.103784

Nabilah, R., Sin, N. M., Rosli, N. I., Kumar, M., Hilles, A. R., Shaik, N., Aramwit, P., & Mahmood, S. (2025). Development of a multifunctional hydrogel coloaded with chitosan-curcumin and silver nanoparticles: Fabrication, characterization, and antibacterial activity. *ACS Omega*, *10*(42), 49602–49622. https://doi.org/10.1021/acsomega.5c04183

Nadeem, M., Majid, H., Ansari, M. D., Ahmad, F. J., Parvez, S., Akhtar, M., Ahmad, S., & Najmi, A. K. (2025). Development and optimization of piracetam and shatavarin IV-loaded nanoemulsion for Alzheimer's disease therapy: In silico and experimental analysis. *ACS Omega*, *10*(9), 9132–9153. https://doi.org/10.1021/acsomega.4c09072

Ng, H. Y., Wu, Y. S., Biswas, M., & Sim, M. S. (2025). Deciphering the molecular clock: Exploring molecular mechanisms and genetic influences on skin ageing. *Biogerontology*, *26*(4). https://doi.org/10.1007/s10522-025-10296-x

Ng, J. S., Muhammad, S. A., Ibrahim, B., Baeten, V., Arnould, Q., & Ogundipe, O. (2025). Refined, bleached, deodorized palm oil adulteration screening using near infrared red spectroscopy. Journal of the Science of Food and Agriculture, 105(13), 7282–7292. https://doi.org/10.1002/jsfa.14435

Ng, J. S., Muhammad, S. A., Ibrahim, B., et al. (2025). Fatty acid diagnostic ratios to screen for used oil adulteration in refined, bleached, deodorised palm oil. *Food Analytical Methods*, *18*, 1685–1698. https://doi.org/10.1007/s12161-025-02815-w

Ngadimon, I. W., Mohan, D., Shaikh, M. F., Khoo, C. S., Tan, H. J., Lee, Y. M., Chamhuri, N. S., Fadzil, F., Zolkafli, N., Arulsamy, A., Thanabalan, J., Aledo-Serrano, A., & Cheong, W. L. (2025). HMGB1 blood levels and neurological outcomes after traumatic brain injury: Insights from an exploratory study. Epilepsia Open, 10(2), 494–507. https://doi.org/10.1002/epi4.70001

Omotosho, I. A., Shamsuddin, N., Zaman Huri, H., Chong, W. L., & Rehman, I. U. (2025). From control to cure: Insights into the synergy of glycemic and antibiotic management in modulating the severity and outcomes of diabetic foot ulcers. *International Journal of Molecular Sciences*, *26*(14), Article 6909. https://doi.org/10.3390/ijms26146909

Paneerselvam, G. S., Lua, P. L., Chooi, W. H., Rehman, I. U., Goh, K. W., & Ming, L. C. (2025). Effectiveness of mobile apps in improving medication adherence among chronic kidney disease patients: Systematic review. Journal of Medical Internet Research, 27, Article e53144. https://doi.org/10.2196/53144

Raza, S., Saleem, F., Alwi, S., Haider, S., Iqbal, Q., Wahid, A., & Bashaar, M. (2025). Translation and psychometric validation of Brief Illness Perception Questionnaire: The Urdu version for facilitating multidisciplinary research in Pakistan. *Journal of Multidisciplinary Healthcare*, *18*, 5075–5088. https://doi.org/10.2147/JMDH.S536636

Saeed, M. D., Shah, K. U., Nawaz, A., Naz, F. F., Metouekel, A., Shazly, G. A., & Dauelbait, M. (2025). Fabrication and evaluation of solidified nanoemulsion designs for systemic delivery of atorvastatin through the lung. *Scientific Reports*, *15*(1), Article 20884. https://doi.org/10.1038/s41598-025-05646-1

Safdar, I., Mahmood, S., Abdulwahab, M. K., Mohd Noor, S., Ge, Y., & Mohamed Sofian, Z. (2025). Inhalable nanomaterial discoveries for lung cancer therapy: A review. Pharmaceutics, 17(8), 996. https://doi.org/10.3390/pharmaceutics17080996

Sailis, A. B., Noh, M. A. B. M., Leo, B. F., Faruqu, F. N., Yee, A., & Sim, M. S. (2026). Mitochondrial dysfunction induced by E-cigarettes. Toxicology, 519, Article 154339. https://doi.org/10.1016/j.tox.2025.154339

Saleem, F., Haider, S., Iqbal, Q., Raziq, A., Farooqui, M., & Bashaar, M. (2025). Exploring the self-efficacy of patients with type 2 diabetes mellitus: A cross-sectional assessment focusing on a low-income, less-educated community of Quetta City, Pakistan. *Diabetes, Metabolic Syndrome and Obesity*, *18*, 1985–1998. https://doi.org/10.2147/DMSO.S524502

Sari, K. C. D. P., Setiati, A. N. R. N., Kusumawardani, L. A., Zaman Huri, H., & Elnaem, M. H. (2025). The urge for specific standards of telepharmacy services: Lessons learned from qualitative study in Indonesian community pharmacies. Digital Health. https://doi.org/10.1177/20552076251326018

Sidek, N. A. M., et al. (2025). Liposome-based drug and vaccine delivery system in veterinary application: Recent advancement and future trends – A review. *Annals of Animal Science*, *25*(3), 887–904. https://doi.org/10.2478/aoas-2024-0106

Suhaili, I. N. A., Yow, H. Y., Mah, S. H., Zaman Huri, H., & Tan, S. L. J. (2025). Alzheimer's disease: Unraveling role of xanthone derivatives and nanocarriers. *Naunyn-Schmiedeberg's Archives of Pharmacology*. https://doi.org/10.1007/s00210-025-04446-8

Szücs, A., van der Lubbe, S. C. C., Arias de la Torre, J., et al. (2025). The epidemiology and burden of ten mental disorders in countries of the Association of Southeast Asian Nations (ASEAN), 1990–2021: Findings from the Global Burden of Disease Study 2021. The Lancet Public Health, 10(6), e480–e491. https://doi.org/10.1016/S2468-2667(25)00098-2

Taher, M., Aminondin, S. A., Nasir, N. A., Jasmadi, N. A., Nizam, N. I. N., Shahrul, I. S., Susanti, D., Khotib, J., Faiyazuddin, M., Widodo, R. T., & Haris, M. S. (2025). Sickle cell disease: Understanding pathophysiology, clinical features and advances in gene therapy approaches. *Frontiers in Pharmacology*, *16*, Article 1630994. https://doi.org/10.3389/fphar.2025.1630994

Takhor, N. H., & Phan, C. W. (2025). The role of ergothioneine in cognition and age-related neurodegenerative disease: A systematic review. *Inflammopharmacology*, *33*(5), 2351–2375. https://doi.org/10.1007/s10787-025-01746-6

Tee, K. B., Mohamad Haron, D. E., Jamil, I. N., Chong, W. L., Zakaria, Z. H., Lim, L. L., Mohd Hashim, N., & Zaman Huri, H. (2026). Clinical pharmacokinetics and pharmacometabolomics of Andrographis paniculata capsules: Bridging drug disposition and metabolic response to precision medicine. Naunyn-Schmiedeberg's Archives of Pharmacology, 399(3), 3561–3573. https://doi.org/10.1007/s00210-025-04656-0

Tukimin, S. N., Karman, S., Wan Kamarul Zaman, W. S., Mohd Yunos, N., Syed Nor, S. N., & Ahmad, M. Y. (2025). The angle of polarized light (AOP) property for optical classification of the crosslinked polymer. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 330, Article 125503. https://doi.org/10.1016/j.saa.2024.125503

Ullah, W., Nawaz, A., Alam Shah, M. K., Latif, M. S., Khan, M. W., Khan, A. A., Fatima, S., Wu, Y. S., & Azad, A. K. (2026). The synthesis of folate-targeted chitosan nanoparticles for the co-delivery of 5-FU and methotrexate: Comprehensive studies on drug release, cellular uptake, and cytotoxicity. Green Chemistry Letters and Reviews, 19(1), Article 2525083. https://doi.org/10.1080/17518253.2025.2525083

Vijayandran, K., Abdo, A. I. K., Wong, M. T. J., Balakrishnan, V., Nordin, F., Wan Kamarul Zaman, W. S., Lim, C. S. Y., & Tye, G. J. (2025). Nanobodies targeting cytokines for the amelioration of autoimmune diseases. International Immunopharmacology, 164, Article 115368. https://doi.org/10.1016/j.intimp.2025.115368

Vijaya Seharan, S. N., Jamaris, S., Islam, T., Ponnampalavanar, S., Shabaruddin, F. H., & Mohd Taib, N. A. (2025). Surgical site infection (SSI) prevention bundle to reduce the incidence of post-mastectomy SSI among breast cancer patients at an academic medical center: Effectiveness and cost consequence analysis. *World Journal of Surgery*, *49*(10), 2884–2900. https://doi.org/10.1002/wjs.70068

Wan Mohd Johari, W. F. H., Abang Ma'mon, D. F., Wahab, I. A., Bahruddin, N. A., & Shamsuddin, N. (2025). Instruments assessing medication literacy in psychiatric patients and the caregivers: A systematic review. *Pharmacopsychiatry*, *58*(4), 178–186. https://doi.org/10.1055/a-2591-2089

Wei, C., Heh, C. H., Lit, L. C., & Chin, S. P. (2025). Comparative molecular dynamics reveals how LRRK2 inhibitors distinguish G2019S from wild-type. *Neurochemical Research*, *50*, Article 259. https://doi.org/10.1007/s11064-025-04520-w

Wenas, D. M., Elya, B., Sutriyo, S., Setiawan, H., Othman, R., Nur, S., Triadisti, N., Yunita, F., & Setyaningsih, E. P. (2025). In vitro and in silico evaluation of the anti-aging potential of Eugenia uniflora UAE extracts. Molecules, 30(15), Article 3168. https://doi.org/10.3390/molecules30153168

Yong, H. S., Song, S. L., Chua, K. O., Liew, Y. J. M., Chan, K. G., Lim, P. E., & Eamsobhana, P. (2025). Complete mitochondrial genome and phylogenomics of Graphium agamemnon and congeners (Lepidoptera, Papilionidae, Leptocircini). Journal of Asia-Pacific Entomology, 28(1), Article 102355. https://doi.org/10.1016/j.aspen.2024.102355

Yow, H. Y., Lim, K. S., Fong, S. L., Lim, A. J., Chow, C. T., Ariffin, M. A. A., Yahaha, S. N., & Karim, S. S. A. (2025). A modified Delphi consensus on the use of intramuscular midazolam for early status epilepticus treatment (ESET) in Malaysia. *Seizure: European Journal of Epilepsy*. Advance online publication. https://doi.org/10.1016/j.seizure.2025.02.009

Zafar, R., Rehman, I. U., Shah, Y., Ming, L. C., Goh, K. W., Suleiman, A. K., & Khan, T. M. (2025). Impact of pharmacist-led intervention for reducing drug-related problems and improving quality of life among chronic kidney disease patients: A randomized controlled trial. PLOS ONE, 20(2), Article e0317734. https://doi.org/10.1371/journal.pone.0317734

Zahra, S. Q., Siddiqua, A., Nawaz, A., Latif, M. S., Baloch, H., Basit, H. M., Alzahrani, K. J., Alsharif, K. F., Sarian, M. N., & Azad, A. K. (2025). Wound healing activities of sulfur nanoparticles of *Allium cepa* extract embedded in a nanocream formulation: In vitro and in vivo studies. *Nanotechnology Reviews*, *14*(1), Article 20250250. https://doi.org/10.1515/ntrev-2025-0250

Zainal Abidin, A. R., Zambry, N. S., Ibrahim, F., et al. (2025). Current advances in biocompatibility assessment for MEMS in biomedical applications. *Microfluidics and Nanofluidics*, *29*, Article 32. https://doi.org/10.1007/s10404-025-02806-7

Zamri, P. J., Lim, S. M. S., Sime, F. B., Roberts, J. A., & Abdul-Aziz, M. H. (2025). A systematic review of pharmacokinetic studies of colistin and polymyxin B in adult populations. *Clinical Pharmacokinetics*. Advance online publication. https://doi.org/10.1007/s40262-025-01488-2

Zolkepli, H., Chia, W. Q., Othman, R., Awang, K., Hazni, H., Sulaiman, S. N., Saidin, S. H., Singh, M. S. J., Miras, J., Widodo, R. T., & Ahmad, N. (2025). Harnessing *Brucea javanica*: Development and characterization of lipid-based niosomes for diabetes treatment. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, *709*, Article 136151. https://doi.org/10.1016/j.colsurfa.2025.136151