

**Dr. Ahmed Zuwail Alanazi**

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Department of Pharmacology and Toxicology

College of Pharmacy, King Saud University, Saudi Arabia

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**QUALIFICATIONS**

- Doctor of Philosophy (Pharmaceutical Sciences), Molecular Medicine and Pharmacogenomics, College of Pharmacy, Nova Southeastern University, United States, December 31, 2017.
- Consultant pharmacist in Pharmaceutical Sciences, Saudi Commission for Health Specialties (SCFHS), since 2017 (License number: 10RP0322813).
- Bachelor degree of Pharmaceutical Sciences (General Pharmacy), College of Pharmacy, King Saud University, Saudi Arabia, 2009/2010, GPA 4.36/5, second class honour.
- High School diploma (Science Track), Arradhwan High School, Riyadh, Saudi Arabia, 2003/2004, GPA 96.42%.

**EMPLOYMENTS**

- Associate Professor, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, Dec 2021-Present.
- Assistant Professor, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, Jan 2018-Dec 2021.
- Teaching Assistant, College of Pharmacy, Nova Southeastern University, Fort Lauderdale, Florida, United States, 2012-2014.
- Research assistant, College of Pharmacy, Nova Southeastern University, Fort Lauderdale, Florida, United States, 2014-2017.
- Teaching Assistant, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, Sep 2010 – Dec 2017.
- Pharmacist, King Fahad Medical City, Riyadh, Saudi Arabia, May 2010 – Aug 2010.
- Pharmacist, AlKharj Military Hospital, Alkharj, Saudi Arabia, Feb 2010 – Apr 2010.

## **PROFESSIONAL MEMBERSHIPS**

- Member, Delta Epsilon Iota Academic Honor Society, Academic Excellence and Strong Leadership Qualities, Lifetime Membership, College of Pharmacy, Nova Southeastern University, Fort Lauderdale, Florida, United States. (2015- Present)
- Member, Rho Chi Society (Academic Honor Society for Pharmaceutical Sciences), College of Pharmacy, Nova Southeastern University, Fort Lauderdale, Florida, United States. (2014- Present)
- Head, Academic Accreditation Committee for Postgraduate Programs, Pharmacology and Toxicology Department, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. (2023-present)
- Co-Supervisor, Academic Guidance Unit, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. (2023-present)
- Member, Assessment Unit Committee, Pharmacy Education Unit, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. (2022-present)
- Member, Course Reports Review Committee, Pharmacy Education Unit, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. (2021-present)
- Member, Study Plans, Programs and Curriculum Committee for the Postgraduate studies, Pharmacology and Toxicology Department, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. (2020-present)
- Member, Annual Report Committee, Pharmacology and Toxicology Department, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. (2018-present)
- Member, Study Plans, Programs and Curriculum Committee for the Bachelor's studies, Pharmacology and Toxicology Department, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. (2018-2021)
- Member, American Society for Pharmacology and Experimental Therapeutics (ASPET), Rockville, Maryland, United States. (2018-Present)
- Member, Saudi Pharmaceutical Society, Riyadh, Saudi Arabia. (2018-Present)

## **WORKSHOPS AND TRAININGS**

- Participant as speaker at Basic Research Skills workshop, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. Feb. 2022.
- Participant as speaker at Basic Research Skills workshop, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. Feb. 2020.

- Cognitive and performance examinations training, Technical Institute for Health Training (CRP Center), Saudi Heart Association/ American Heart Association, Riyadh, Saudi Arabia. Mar 2010.
- Internship Training, Pharmacy Department, King Abdulaziz Medical City – National Guard Health Affairs, Riyadh, Saudi Arabia. Oct 10, 2009 – Jan 27, 2010.
- Al Razi Program, King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia. Jul 25 – Aug 19, 2009.
- Training Program, Dallah Hospital, Riyadh, Saudi Arabia. Aug 2 – Sep 28, 2008.
- Workshop, King Abdulaziz and his companion foundation for giftedness and creativity, Riyadh College of Technology, Riyadh, Saudi Arabia. Jul 05 – Aug 01, 2003.

### **CONFERENCES AND SYMPOSIUM**

- The 13th College of Pharmacy Research Day (COPRD13), College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, 2024.
- Saudi International Pharmaceutical Sciences Meeting and Workshops (SIPHA), Riyadh, Saudi Arabia, 2024.
- The 12th College of Pharmacy Research Day (COPRD12), College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, 2023.
- Saudi International Pharmaceutical Sciences Meeting and Workshops (SIPHA), Riyadh, Saudi Arabia, 2023.
- The 11th College of Pharmacy Research Day (COPRD11), College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, 2022.
- Saudi International Pharmaceutical Sciences Meeting and Workshops (SIPHA), Riyadh, Saudi Arabia, 2022.
- The 10th College of Pharmacy Research Day (COPRD2021), College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, 2021.
- Saudi International Pharmaceutical Sciences Meeting and Workshops (SIPHA), Riyadh, Saudi Arabia, 2021.
- The 9th College of Pharmacy Research Day (COPRD2019), College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, 2019.
- Poster Presentation, Experimental Biology Conference 2019, Orlando, Florida, United States, 2019.
- The 8th College of Pharmacy Research Day (COPRD2018), College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, 2018.
- Poster Presentation, Experimental Biology Conference 2016, San Diego, California, United States, 2016.
- Poster Presentation, Health Professions Division Research Day, College of Pharmacy, Nova Southeastern University, Fort Lauderdale, Florida, United States, 2016.
- Poster Presentation, Experimental Biology Conference 2015, Boston, Massachusetts, United States, 2015.
- Poster Presentation, Health Professions Division Research Day, College of Pharmacy, Nova Southeastern University, Fort Lauderdale, Florida, United States, 2014.
- Medication Safety in Saudi Arabia, Makarrem Hall, Riyadh Marriott Hotel, Riyadh, Saudi Arabia, 2008.

- 1<sup>st</sup> RMH International Pharmacy Conference, Riyadh Military Hospital, Riyadh, Saudi Arabia, 2008.
- Future of Medications in the 21<sup>st</sup> Century, The 9<sup>th</sup> International Pharmaceutical Sciences Conference and Exhibition, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, 2005.

### **PUBLISHED ABSTRACT**

- Ahmed Z. Alanazi, Abdullah S. Alshahrani, and Anas T. Alhabshan., Hepatoprotective Effect of Artemisia Absinthium L Methanolic Extract Against D-Galactosamine/Lipopolysaccharide Induced Hepatic Damage In Male Swiss Albino Mice, The 13th College of Pharmacy Research Day (COPRD13), 2024.
- Ahmed Z. Alanazi, Abdulaziz Alsedrah, and Ziad Alkraidis., Protective Role of Liposomal Resveratrol against Kidney and Liver Dysfunction, Inflammation, and Oxidative Stress in Streptozotocin Diabetic Rat Model, The 12th College of Pharmacy Research Day (COPRD12), 2023.
- Ahmed Z. Alanazi, and Fahad N. Alhaqbani., APT158 Cytotoxicity and apoptotic Effects of Dodonaea viscosa and Loranthus regularis in Breast and Lung Cancer Cell Lines, The 9th College of Pharmacy Research Day (COPRD2019), 2019.
- Alanazi A. Z. and Clark M. A., Angiotensin-III induces Interleukin-6 secretion in vascular smooth muscle cells isolated from SHR and Wistar rats, The FASEB Journal, 2019.
- Alanazi A. Z. and Clark M. A., Effect of Angiotensin III on ERK1/2 and p38 mitogen activated protein (MAP) kinases in Wistar rat VSMCs, The FASEB Journal, 2015.
- Alanazi A. Z., Patel P. and Clark M. A., Angiotensin II and angiotensin III induce p38 mitogen activated protein kinase in cultured rat astrocytes, 2014, NSU Florida, Nova Southeastern University.
- Alanazi A. Z. and Clark M. A., Role of Angiotensin III on ERK1/2 and p38 mitogen activated protein (MAP) kinases in Wistar rat VSMCs, 2016, NSU Florida, Nova Southeastern University.

### **RESEARCH PAPERS**

1. Alaseem, A. M., Alhazzani, K., **Alanazi, A. Z.**, Alsanad, S. M., Alkhamees, O. A., Alasiri, G., ... & Ali, A. M. B. H. (2024). Dual-Modulation ratiometric fluorescence strategy for cobalt and topotecan detection using Red-Emissive carbon dots. *Microchemical Journal*, 201, 110645.
2. Algahtani, M.M., Ahmad, S.F., Al-Harbi, N.O., Al-Ayadhi, L.Y., Alhazzani, K., **Alanazi, A.Z.**, ... & Nadeem, A. (2024). Dysregulated Antioxidant Network and Increased iNOS Signaling in Platelets of Children with Autism Spectrum Disorder. *Journal of Biological Regulators and Homeostatic Agents*, 38(5), 4289-4298.

3. Alhazzani, K., **Alanazi, A. Z.**, Mostafa, A. M., Barker, J., El-Wekil, M. M., & Ali, A. M. B. H. (2024). Cobalt-modulated dual emission carbon dots for ratiometric fluorescent vancomycin detection. *RSC advances*, *14*(8), 5609-5616.
4. Alhamami, H. N., Albogami, A. M., Algahtani, M. M., Alqinyah, M., Alanazi, W. A., **Alanazi, A. Z.**, ... & Alhamed, A. S. (2024). The effect of inhibiting hindbrain A2 noradrenergic neurons by 6-Hydroxydopamine on lipopolysaccharide-treated male rats autistic animal model. *Saudi Pharmaceutical Journal*, *32*(3), 101964.
5. **Alanazi, A. Z.**, Alhazzani, K., Mahmoud, A. M., Ali, A. M. B. H., & El-Wekil, M. M. (2024). Advanced fluorescence-based determination of carboplatin, a potent anticancer agent, with tripeptide-functionalized copper nanoclusters. *Microchemical Journal*, *199*, 110000.
6. Alhazzani, K., **Alanazi, A. Z.**, Mostafa, A. M., Barker, J., El-Wekil, M. M., & Ali, A. M. B. H. (2024). A dual emissive silver-riboflavin complex and nitrogen-doped carbon dot nanoprobe for ratiometric detection of glutathione. *Microchemical Journal*, *199*, 109996.
7. Alhazzani, K., **Alanazi, A. Z.**, Mostafa, A. M., Barker, J., El-Wekil, M. M., & Ali, A. M. B. H. (2024). Selective fluorescence turn-on detection of combination cisplatin–etoposide chemotherapy based on N-CDs/GSH-CuNCs nanoprobe. *RSC advances*, *14*(4), 2380-2390.
8. **Alanazi, A. Z.**, Alhazzani, K., Mostafa, A. M., Barker, J., El-Wekil, M. M., & Ali, A. M. B. H. (2024). Highly selective fluorometric detection of streptokinase via fibrinolytic release of photoluminescent carbon dots integrated into fibrin clot network. *Microchemical Journal*, *197*, 109800.
9. Alfardan, A. S., Nadeem, A., Ahmad, S. F., Al-Harbi, N. O., Alqinyah, M., **Alanazi, A. Z.**, ... & Ibrahim, K. E. (2024). Worsening of imiquimod-induced psoriasiform inflammation in mice by environmental pollutant, di-(2-ethylhexyl) phthalate through dysregulation in IL-17A and Nrf2/iNOS signaling in peripheral myeloid and CD4+ T cells. *International Immunopharmacology*, *126*, 111293
10. Alhazzani, K., Almangour, A., Alsalem, A., Alqinyah, M., Alhamed, A. S., Alhamami, H. N., & **Alanazi, A. Z.** (2023). Examining the Effects of Dasatinib, Sorafenib, and Nilotinib on Vascular Smooth Muscle Cells: Insights into Proliferation, Migration, and Gene Expression Dynamics. *Diseases*, *11*(4), 147.
11. **Alanazi, A. Z.**, Alhazzani, K., Mostafa, A. M., Barker, J., El-Wekil, M. M., & Ali, A. M. B. H. (2024). Selective and reliable fluorometric quantitation of anti-cancer drug in real plasma samples using nitrogen-doped carbon dots after MMIPs solid phase microextraction: Monitoring methotrexate plasma level. *Journal of Pharmaceutical and Biomedical Analysis*, *238*, 115862.
12. Alhazzani, K., **Alanazi, A. Z.**, Mostafa, A. M., Barker, J., El-Wekil, M. M., & Ali, A. M. B. H. (2023). A novel microextraction technique aided by air agitation using a natural hydrophobic deep eutectic solvent for the extraction of fluvastatin and

empagliflozin from plasma samples: application to pharmacokinetic and drug–drug interaction study. *RSC advances*, 13(44), 31201-31212.

13. Alhazzani, K., **Alanazi, A. Z.**, Mostafa, A. M., Barker, J., El-Wekil, M. M., & Ali, A. M. B. H. (2023). A selective dual quenching sensor (EY/BG@ CDs) for simultaneous monitoring of gentamicin and ketorolac levels in plasma: a highly efficient platform that caters to the needs of therapeutic drug monitoring. *RSC advances*, 13(41), 28940-28950.
14. Alhazzani, K., Alrewily, S. Q., Aljerian, K., Alhosaini, K., Algahtani, M. M., Almutery, M. F., ... & **Alanazi, A. Z.** (2023). Hydroxychloroquine ameliorates dasatinib-induced liver injury via decrease in hepatic lymphocytes infiltration. *Human & Experimental Toxicology*, 42, 09603271231188492.
15. **Alanazi, A. Z.**, Alhazzani, K., Mostafa, A. M., Barker, J., Mohamed, S. H., El-Wekil, M. M., & Ali, A. M. B. H. (2023). Monitoring antiviral active metabolite (N-hydroxycytidine) levels in plasma in presence of carboxylesterase-2 inhibitor verapamil using copper tetracyanoquinodimethane enhanced sensor. *Microchemical Journal*, 109330.
16. Alhazzani, K., Alsahli, M., **Alanazi, A. Z.**, Algahtani, M., Alenezi, A. A., Alhoshani, A., ... & Alhosaini, K. (2023). Augmented Antitumor Effects of Erlotinib and Cabozantinib on A549 Non-Small Cell Lung Cancer Cells: In Vitro and In Vivo Studies. *Saudi Pharmaceutical Journal*, 101756.
17. **Alanazi, A. Z.**, Alhazzani, K., Alrewily, S. Q., Aljerian, K., Algahtani, M. M., Alqahtani, Q. H., ... & Raish, M. (2023). The Potential Protective Role of Naringenin against Dasatinib-Induced Hepatotoxicity. *Pharmaceuticals*, 16(7), 921.
18. **Alanazi, A. Z.**, Al-Rejaie, S. S., Ahmed, M. M., Alhazzani, K., Alhosaini, K., Sobeai, H. M. A., ... & Mohany, M. (2023). Protective role of Dodonaea viscosa extract against streptozotocin-induced hepatotoxicity and nephrotoxicity in rats. *Saudi Pharmaceutical Journal*, 31(8), 101669.
19. Alqinyah, M., Alhamed, A. S., Alnefaie, H. O., Algahtani, M. M., Badr, A. M., Albogami, A. M., ... **Alanazi A. Z.** & Alsaidan, O. A. (2023). Targeting Store-Operated Calcium Entry Regulates the Inflammation-Induced Proliferation and Migration of Breast Cancer Cells. *Biomedicines*, 11(6), 1637.
20. Alhamed, A. S., Alqinyah, M., Alghaith, A. F., Algahtani, M. M., Alqahtani, F., Nasr, F. A., ... & **Alanazi, A. Z.** (2023). Phytochemical analysis and anticancer activity of the Pithecellobium dulce seed extract in colorectal cancer cells. *Open Chemistry*, 21(1), 20230362.
21. **Alanazi, A. Z.**, Alhazzani, K., Alaseem, A. M., Alanzi, A. R., Al Awadh, S. A., Alenazi, F. S., ... & El-Wekil, M. M. (2023). A molecularly imprinted electrochemical sensor for specific and ultrasensitive determination of an aminoglycoside drug: the role of copper ions in the determination. *Analyst*, 148(9), 2170-2179.

22. Alhazzani, K., **Alanazi, A. Z.**, Alaseem, A. M., Al Awadh, S. A., Alanazi, S. A., AlSayyari, A. A., ... & El-Wekil, M. M. (2023). A reliable ratiometric fluorescence sensing of heparin and its antidote based on cationic carbon quantum dots and acid red 87. *Microchemical Journal*, 108666.
23. Alaseem, A. M., Alhazzani, K., **Alanazi, A. Z.**, Alqarni, Y., Algahtani, M. M., Alhamed, A. S., ... & Aldali, J. A. (2023). Preclinical In Vitro Investigation of MDM2 Inhibition in Combination with Antiangiogenic Therapy for Breast Cancer Treatment. *Scientia Pharmaceutica*, 91(1), 12.
24. Alhamed, A. S., Alqinyah, M., Alsufayan, M. A., Alhaydan, I. A., Alassmrry, Y. A., Alnefaie, H. O., ... & **Alanazi, A. Z.** (2023). Blockade of store-operated calcium entry sensitizes breast cancer cells to cisplatin therapy via modulating inflammatory response. *Saudi Pharmaceutical Journal*, 31(2), 245-254.
25. Alanazi, W. A., Alhamami, H. N., Alharbi, M., Alhazzani, K., **Alanazi, A.Z. S.**, Alsanea, S., ... & Alswayyed, M. (2022). Angiotensin II type 1 receptor blockade attenuates gefitinib-induced cardiac hypertrophy via adjusting angiotensin II-mediated oxidative stress and JNK/P38 MAPK pathway in a rat model. *Saudi Pharmaceutical Journal*, 30(8), 1159-1169.
26. Ola, M. S., **Alanazi, A. Z.**, Malik, A., Malik, A., Ahmed, M., Al-Rejaie, S. S., & Alhomida, A. S. (2022). Loranthus regularis Ameliorates Neurodegenerative Factors in the Diabetic Rat Retina. *Applied Sciences*, 12(6), 2875.
27. Obaidullah, A. J., Alanazi, M. M., Alsaif, N. A., **Alanazi, A.Z. S.**, Albassam, H., Az, A., ... & Tareq, A. M. (2022). Network pharmacology-and molecular docking-based identification of potential phytochemicals from *Argyrea capitiformis* in the treatment of inflammation. *Evidence-Based Complementary and Alternative Medicine*, 2022.
28. O'Connor, A. T., Haspula, D., **Alanazi, A. Z.**, & Clark, M. A. (2022). Roles of Angiotensin III in the brain and periphery. *Peptides*, 170802.
29. Anwer, M. K., Fatima, F., Ahmed, M. M., Aldawsari, M. F., Alali, A. S., Kalam, M. A., **Alanazi A.Z.**, ... & Al-Shdefat, R. (2022). Abemaciclib-loaded ethylcellulose based nanosponges for sustained cytotoxicity against MCF-7 and MDA-MB-231 human breast cancer cells lines. *Saudi Pharmaceutical Journal*, 30(6), 726-734.
30. Mohammed Muqtader, A. H. M. E. D., FATIMA, F., **Alanazi A.Z.**, ... & ANWER, M. K. (2022). Development and Characterization of Osimertinib Loaded Ethylcellulose Based Sustained Release Nanosponges: Cytotoxicity and Biocompatibility Studies. *Latin American Journal of Pharmacy*, 41(1), 286-310
31. Al-Harbi, N. O., Ahmad, S. F., Almutairi, M., **Alanazi, A. Z.**, Ibrahim, K. E., Alqarni, S. A., ... & Nadeem, A. (2022). Lck signaling inhibition causes improvement in clinical features of psoriatic inflammation through reduction in inflammatory cytokines in CD4+ T cells in imiquimod mouse model. *Cellular Immunology*, 376, 104531.
32. **Alanazi, A. Z.**, Mohany, M., Alasmari, F., Mothana, R. A., Alshehri, A. O., Alhazzani, K., ... & Al-Rejaie, S. S. (2021). Amelioration of Diabetes-Induced Nephropathy by

Loranthus regularis: Implication of Oxidative Stress, Inflammation and Hyperlipidaemia. *Applied Sciences*, 11(10), 4548.

33. Alhazzani, K., Alotaibi, M. R., Alotaibi, F. N., Aljerian, K., As Sobeai, H. M., Alhoshani, A. R., **Alanazi A.Z.**, ... & Alswayed, M. (2021). Protective effect of valsartan against doxorubicin-induced cardiotoxicity: Histopathology and metabolomics in vivo study. *Journal of Biochemical and Molecular Toxicology*, e22842.
34. Eissa, I. H., Dahab, M. A., Ibrahim, M. K., Alsaif, N. A., **Alanazi, A. Z.**, Eissa, S. I., ... & Beauchemin, A. M. (2021). Design and discovery of new antiproliferative 1, 2, 4-triazin-3 (2H)-ones as tubulin polymerization inhibitors targeting colchicine binding site. *Bioorganic Chemistry*, 112, 104965.
35. Mahnashi, M. H., Mahmoud, A. M., Alhazzani, K., **Alanazi, A. Z.**, Algahtani, M. M., Alaseem, A. M., ... & El-Wekil, M. M. (2021). Enhanced molecular imprinted electrochemical sensing of histamine based on signal reporting nanohybrid. *Microchemical Journal*, 168, 106439.
36. Mahnashi, M. H., Mahmoud, A. M., Alhazzani, K., **Alanazi, A. Z.**, Alaseem, A. M., Algahtani, M. M., & El-Wekil, M. M. (2021). Ultrasensitive and selective molecularly imprinted electrochemical oxaliplatin sensor based on a novel nitrogen-doped carbon nanotubes/Ag@ cu MOF as a signal enhancer and reporter nanohybrid. *Microchimica Acta*, 188(4), 1-12
37. Mahnashi, M. H., Mahmoud, A. M., **Alanazi, A. Z.**, Alhazzani, K., Alanazi, S. A., Alanazi, M. M., & El-Wekil, M. M. (2021). A novel design and facile synthesis of nature inspired poly (dopamine-Cr<sup>3+</sup>) nanocubes decorated reduced graphene oxide for electrochemical sensing of flibanserin. *Microchemical Journal*, 164, 106020.
38. Mahmoud, A. M., Mahnashi, M. H., Alhazzani, K., **Alanazi, A. Z.**, Algahtani, M. M., Alaseem, A., ... & El-Wekil, M. M. (2021). Nitrogen doped graphene quantum dots based on host guest interaction for selective dual readout of dopamine. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 252, 119516
39. Ansari, M. J., Alnakhli, M., Al-Otaibi, T., Al Meanazel, O., Anwer, M. K., Ahmed, M. M., **Alanazi A.Z.** ... & Ahmad, N. (2021). Formulation and evaluation of self-nanoemulsifying drug delivery system of brigatinib: Improvement of solubility, in vitro release, ex-vivo permeation and anticancer activity. *Journal of Drug Delivery Science and Technology*, 61, 102204.
40. **Alanazi, A. Z.**, Alqahtani, F., Mothana, R. A., Mohany, M., Abuohashish, H. M., Ahmed, M. M., & Al-Rejaie, S. S. (2020). Protective Role of Loranthus regularis against Liver Dysfunction, Inflammation, and Oxidative Stress in Streptozotocin Diabetic Rat Model. *Evidence-Based Complementary and Alternative Medicine*, 2020.
41. Sultan, M. H., **Zuwaiel, A. A.**, Moni, S. S., Alshahrani, S., Alqahtani, S. S., Madkhali, O., & Elmobark, M. E. (2020). Bioactive Principles and Potentiality of Hot Methanolic Extract of the Leaves from Artemisia absinthium L “in vitro Cytotoxicity Against

Human MCF-7 Breast Cancer Cells, Antibacterial Study and Wound Healing Activity". *Current Pharmaceutical Biotechnology*.

42. Alqahtani, F., Assiri, M. A., Mohany, M., Imran, I., Javaid, S., Rasool, M. F., **Alanazi A.Z.** ... & Alamri, F. F. (2020). Coadministration of Ketamine and Perampanel Improves Behavioral Function and Reduces Inflammation in Acute Traumatic Brain Injury Mouse Model. *BioMed Research International*, 2020.
43. Ahmed, M. M., Fatima, F., Anwer, M. K., Aldawsari, M. F., Alsaidan, Y. S. M., Alfaiz, S. A., **Alanazi A.Z.** ... & Alhazzani, K. (2020). Development and characterization of Brigatinib loaded solid lipid nanoparticles: In-vitro cytotoxicity against human carcinoma A549 lung cell lines. *Chemistry and Physics of Lipids*, 233, 105003.
44. Alqahtani, F., Mohany, M., Alasmari, A. F., **Alanazi, A. Z.**, Belali, O. M., Ahmed, M. M., & Al-Rejaie, S. S. (2020). Angiotensin II receptor Neprilysin inhibitor (LCZ696) compared to Valsartan attenuates Hepatotoxicity in STZ-induced hyperglycemic rats. *International Journal of Medical Sciences*, 17(18), 3098.
45. Mohany, M., **Alanazi, A. Z.**, Alqahtani, F., Belali, O. M., Ahmed, M. M., & Al-Rejaie, S. S. (2020). LCZ696 mitigates diabetic-induced nephropathy through inhibiting oxidative stress, NF- $\kappa$ B mediated inflammation and glomerulosclerosis in rats. *PeerJ*, 8, e9196.
46. **Alanazi, A. Z.**, & Clark, M. A. (2020). Angiotensin III induces p38 Mitogen-activated protein kinase leading to proliferation of vascular smooth muscle cells. *Pharmacological Reports*, 72(1), 246-253.
47. **Alanazi, A. Z.**, & Clark, M. A. (2020). Effects of angiotensin III on c-Jun N terminal kinase in Wistar and hypertensive rat vascular smooth muscle cells. *Peptides*, 123, 170204.
48. **Alanazi, A. Z.**, & Clark, M. A. (2019). Angiotensin III Induces JAK2/STAT3 Leading to IL-6 Production in Rat Vascular Smooth Muscle Cells. *International journal of molecular sciences*, 20(22), 5551.
49. Mohammed, M., Alnafisah, M. S., Anwer, M. K., Fatima, F., Almutairy, B. K., Alshahrani, S. M., **Alanazi, A. Z.**, ... & Al Zahrani, M. (2019). Chitosan surface modified PLGA nanoparticles loaded with brigatinib for the treatment of non-small cell lung cancer. *Journal of Polymer Engineering*, 39(10), 909-916.
50. Ahmad, S. F., Ansari, M. A., Nadeem, A., Bakheet, S. A., **Alanazi, A. Z.**, Alsanea, S., ... & Attia, S. M. (2019). The Stat3 inhibitor, S3I-201, downregulates lymphocyte activation markers, chemokine receptors, and inflammatory cytokines in the BTBR T+ Itpr3tf/J mouse model of autism. *Brain research bulletin*, 152, 27-34.
51. Imam, F., Al-Harbi, N. O., Al-Harbi, M. M., Qamar, W., Algerian, K., Belali, O. M., Alsanea, S., **Alanazi, A.Z.** & Alhazzani, K. (2019). Apremilast ameliorates carfilzomib-induced pulmonary inflammation and vascular injuries. *International Immunopharmacology*, 66, 260-266.

52. **Z. Alanazi, A., Patel, P., & Clark, M. A.** (2014). p38 Mitogen-activated protein kinase is stimulated by both angiotensin II and angiotensin III in cultured rat astrocytes. *Journal of Receptors and Signal Transduction*, 34(3), 205-211.

### **GRANTS:**

- Principle investigator, Researchers Supporting Project number, King Saud University, Saudi Arabia (RSPD2024R563)
- Principle investigator, Researchers Supporting Project number, King Saud University, Saudi Arabia (RSPD2023R563)
- Principle investigator, Deputyship for Research & Innovation, Ministry of Education, Saudi Arabia (IFKSURG-275)
- Principle investigator, Deputyship for Research & Innovation, Ministry of Education, Saudi Arabia (IFKSURG-550)
- Principle investigator, Deputyship for Research & Innovation, Ministry of Education, Saudi Arabia (IFKSUOR3-346)
- Co-Principle investigator, Deputyship for Research & Innovation, Ministry of Education, Saudi Arabia (IFKSURG-295)
- Co-Principle investigator, Deputyship for Research & Innovation, Ministry of Education, Saudi Arabia (IFKSURG-193)
- Co-Principle investigator, Deputyship for Research & Innovation, Ministry of Education, Saudi Arabia (IFKSUOR3-432)

### **TEACHING COURSES**

- **PHCL-211 PharmD Field Training Course**  
This Course aims at exposing students to entry-level pharmacy practice through actual working in various pharmacy practice sites.
- **PHCL-311 PharmD Field Training Course**  
This Course aims at exposing students to entry-level pharmacy practice through actual working in various pharmacy practice sites.
- **PHL 418 Pharmacology III**  
This Course deals with the Pharmacological actions, uses, mechanisms, side effects, precautions contraindications, and drug interactions of those drugs acting on the hemopoietic system, lipids and the coagulation process. It also includes the antiemetic & purgative drugs. A third part of the course deals with antiparasitic, immunomodulators and aphrodisiac drugs.
- **PHL 511: Experimental Pharmacology (Master Degree)**

This course deals with the following: selected in vivo experiments intended to teach and train the student to prepare experimental animals for the demonstration of the established pharmacological actions of standard neurotransmitters, autacoids and some drugs; the various means currently available for the induction of arrhythmias, inflammation and pain disorders by standard drugs. The theoretical part of the course will deal with: a background of the system under study with emphasis on the mechanisms of drugs affecting it; the general procedure to be followed for the preparation of the animal(s) chosen for the study and the experimental protocols to be followed to obtain the desired effects.

➤ **PHL 513: Advanced Pharmacology II (Master Degree)**

This course deals with: the advanced knowledge in pharmacological aspects and therapeutic applications of drugs acting on the cardiovascular system and kidney; the molecular pharmacology of these drugs and aspects of clinical usefulness, such as contraindications, interactions and adverse reactions.

➤ **PHL 518 Selected Topic in Pharmacology (Master Degree)**

This course deals with selected recent topics on pharmacology and with training students to search literature, extract information and draw conclusions.

➤ **PHL 521 Clinical Pharmacology and Therapeutics (Master Degree)**

The goal of this course is to discuss the rationale for the choice of certain drugs in the treatment of specified disease states, such as infectious, pediatric, geriatric, eye, rheumatic and gynaecological diseases. More emphasis will be directed towards the mechanism of action, side effects and contra-indications of the chosen drugs.

➤ **PHL 625: Laboratory Rotation-3/ Laboratory Training-3 (Ph.D. Degree)**

In this practical course students will be trained on the laboratory research models established in the department in the area of toxicology and pharmacology. Students under the supervision of faculty member(s) will perform this laboratory research.