

Dr. Mohammed Y. Ghazwani

Associate Professor, Department of Pharmaceutics

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Degrees and academic qualifications

- Associate Professor, Department of Pharmaceutics, College of Pharmacy, King Khalid University, Abha, Saudi Arabia, 2022- now
- Assistant Professor, Department of Pharmaceutics, College of Pharmacy, King Khalid University, Abha, Saudi Arabia, 2016 - 2022
- PhD in Pharmaceutical Sciences, University of Pittsburgh, Pennsylvania, USA, 2016
- E-Learning Practitioner from the Deanship of E-Learning, King Khalid University 2020
- Certified Senior Pharmacist by the Saudi Commission for Health Specialties, 2018
- Pharmacist consultant classified by the Saudi Commission for Health Specialties, 2021
- Vice Dean of the College of Pharmacy, King Khalid University, Abha, Kingdom of Saudi Arabia, 2017 - 2019
- Vice Dean in charge of the College of Pharmacy, King Khalid University, Abha, Kingdom of Saudi Arabia, 2017 - 2017
- Head of the Department of Pharmacology and Toxicology in charge of the College of Pharmacy, King Khalid University, Abha, Kingdom of Saudi Arabia, 2016-2017
- Teaching Assistant Department of Pharmaceutics, College of Pharmacy, King Khalid University, Abha, Saudi Arabia, 2008 - 2016

- Bachelor's degree in Pharmacy, King Khalid University, Abha, Kingdom of Saudi Arabia, 2007

University and community service

- Secretary of the Council of the College of Pharmacy, King Khalid University, Abha, Kingdom of Saudi Arabia, 2017 - 2019
- Secretary of the Board of the Department of Pharmaceutics, College of Pharmacy, King Khalid University 2019-2020
- Chairman of the Research Committee, College of Pharmacy, King Khalid University 2016 -2019
- Chairman of the Laboratories Committee, College of Pharmacy, King Khalid University 2017 - 2019
- Chairman of the Annual Requisition Committee, College of Pharmacy, King Khalid University 2017 -2019
- Supervisor of student research participations from the College of Pharmacy at King Khalid University in the Scientific Research Day competition for the Colleges of Pharmacy at Qassim University 2017
- Member of the Council of the College of Pharmacy, King Khalid University 2016 - 2019
- Member of the Board of the Department of Pharmaceutics, College of Pharmacy, King Khalid University, 2016 - now
- Member of the Training and Excellence Committee, College of Pharmacy, King Khalid University 2017 -2019
- Member of the Scientific Committee of the 13th Annual Scientific Research Day for Health Colleges at King Khalid University, 2018
- Member of the Scientific Committee of the 14th Annual Scientific Research Day for Health Colleges at King Khalid University, 2019
- Member of the Teaching Assistants Selection Committee, College of Pharmacy, King Khalid University, 2017
- Member of the Health Board in the Asir region, 2017 - 2020
- Member of the Contracting Team at King Khalid University, Delegated to India, 2018

- Member of the Graduate Studies Committee, Department of Pharmaceutics, King Khalid University, 2020 - now
- Member of the Plans and Curriculum Committee, Department of Pharmaceutics, King Khalid University, 2021 - now
- Examination and arbitration of a book as a scientific reference at the invitation of the Scientific Council at Prince Sattam bin Abdulaziz University, 2019
- Preparation and recording of the preparatory course for the examination of the Commission for Health Specialties to practice the profession of pharmacy, 2019

Scientific, professional activities and conferences

- Participation in the introductory and interactive part of the Masarat Project to develop the skills of faculty members at King Khalid University, 2021
- Twenty-ninth symposium of Parenteral Nutrition Updates: Focus on Safety, Quality and Techniques, Riyadh, Saudi Arabia 2021
- The annual meeting of the Saudi Pharmaceutical Society 2021, Riyadh, Saudi Arabia, 2021
- Professional and Academic Identity Workshop for Consulting Skills, Abha, Kingdom of Saudi Arabia, 2020
- Blackboard E-Content Building Skills Workshop, Abha, Kingdom of Saudi Arabia, 2020
- Strategic planning for universities in light of the Kingdom's vision (2030) and the new university system, Riyadh, Kingdom of Saudi Arabia, 2020
- Key Techniques for a Successful Counseling Session, Abha, Kingdom of Saudi Arabia, 2020
- E-learning in the age of artificial intelligence, Abha, Kingdom of Saudi Arabia, 2020
- Self and Institutional Impact Leadership Workshop, Abha, Kingdom of Saudi Arabia, 2020

- Conspiracy Integration between the pharmaceutical and academic sectors to bridge the gap in the pharmaceutical industries and drug development, Riyadh, Kingdom of Saudi Arabia, 2021
- The annual meeting of the Saudi Pharmaceutical Society 2020, Riyadh, Saudi Arabia, 2020
- Workshop on the application of quality management rules (APPQMR), Riyadh, Kingdom of Saudi Arabia, 2020
- Hosting the scientific meeting titled “Advances in formulation design and drug delivery research,” College of Pharmacy, King Khalid University, 2019
- 3rd European Congress of Medicine and Pharmaceutical Sciences, Rome, Italy, 2019
- The annual meeting of the Saudi Pharmaceutical Society SIPHA, Riyadh, Kingdom of Saudi Arabia, 2018.
- Annual meeting of the American Association of Pharmaceutical Scientists AAPS Los Angeles, CA, USA, 2017.
- The 41ST annual meeting and exhibition of the Association controlled pharmaceutical, Chicago, Illinois, United States of America, 2014.
- 5th Student Research Symposium, American Society of Pharmacologists Branch, Pittsburgh, Pennsylvania, USA, 2013
- Academic Leadership Development Workshop, Washington DC United States of America, 2011.

Memberships of scientific societies

- Member of the Saudi Pharmaceutical Society (SPS)
- Member of the American Association of Pharmaceutical Scientists (AAPS)
- Member of the Controlled Release Society (CRS)
- Founding member of the Saudi Group of the American Association of Pharmaceutical Scientists (AAPS-SDG)

Supported Research Projects

- Project No. (405), Year (1438 AH), Supporting Body (Deanship of Scientific Research, King Khalid University), Title (Studying the effectiveness of latex

(emulsion) of the cactus or milk plant in treating leishmaniasis, and developing a pharmaceutical skin preparation to improve its therapeutic performance), Research Status (project completed)

- Project No. (250), year (1442 AH), supporting body (Deanship of Scientific Research, King Khalid University), Title (Determination and enhancement of drug solubility using computational modeling and thermodynamic analysis), Research Status (project completed)
- Project No. (340), Year (1442 AH), Supporting Body (Deanship of Scientific Research, King Khalid University), Title (Colon Cancer in Asir Region), Research Status (In progress)
- Project No. (12-64 - H -2020), year (1441 AH), the supporting body (Institute of Consulting Research and Studies, King Khalid University), Title (discovery of inhibitors SARS-Cov 2 using new modeling techniques computational different), Research Status (project completed)

Publications and authorships

1. **Ghazwani, M.;** Vasudevan, R.; Kandasamy, G.; Manusri, N.; Devanandan, P.; Puvvada, R.C.; Veeramani, V.P.; Paulsamy, P.; Venkatesan, K.; Chidmabaram, K.; et al. Formulation of Intranasal Mucoadhesive Thermotriggered In Situ Gel Containing Mirtazapine as an Antidepressant Drug. *Gels* **2023**, *9*, 457. <https://doi.org/10.3390/gels9060457>
2. Gowrav, M.P.; Siree, K.G.; Amulya, T.M.; Bharathi, M.B.; **Ghazwani, M.;** Alamri, A.; Alalkami, A.Y.; Kumar, T.M.P.; Ahmed, M.M.; Rahamathulla, M. Novel Rhinological Application of Polylactic Acid—An In Vitro Study. *Polymers* **2023**, *15*, 2521. <https://doi.org/10.3390/polym15112521>
3. **Ghazwani, M.;** Hani, U.; Alam, A.; Alqarni, M.H. Quality-by-Design-Assisted Optimization of Carvacrol Oil-Loaded Niosomal Gel for Anti-Inflammatory Efficacy by Topical Route. *Gels* **2023**, *9*, 401. <https://doi.org/10.3390/gels9050401>
4. **Ghazwani, M.;** Hani, U.; Alqarni, M.H.; Alam, A. Development and Characterization of Methyl-Anthranilate-Loaded Silver Nanoparticles: A Phytocosmetic Sunscreen Gel for UV Protection. *Pharmaceutics* **2023**, *15*, 1434. <https://doi.org/10.3390/pharmaceutics15051434>

5. Shoaib S, Ansari MA, **Ghazwani M**, Hani U, Jamous YF, Alali Z, Wahab S, Ahmad W, Weir SA, Alomary MN, Yusuf N, Islam N. Prospective Epigenetic Actions of Organo-Sulfur Compounds against Cancer: Perspectives and Molecular Mechanisms. *Cancers (Basel)*. 2023 Jan 23;15(3):697. doi: 10.3390/cancers15030697. PMID: 36765652; PMCID: PMC9913804.
6. Shivananjegowda MG, Hani U, Osmani RAM, Alamri AH, **Ghazwani M**, Alhamhoom Y, Rahamathulla M, Paranthaman S, Gowda DV, Siddiqua A. Development and Evaluation of Solid Lipid Nanoparticles for the Clearance of A β in Alzheimer's Disease. *Pharmaceutics*. 2023 Jan 9;15(1):221. doi: 10.3390/pharmaceutics15010221. PMID: 36678849; PMCID: PMC9861776.
7. Rao H, Ahmad S, Madni A, Rao I, **Ghazwani M**, Hani U, Umair M, Ahmad I, Rai N, Ahmed M, Khan KUR. Compritol-Based Alprazolam Solid Lipid Nanoparticles for Sustained Release of Alprazolam: Preparation by Hot Melt Encapsulation. *Molecules*. 2022 Dec 14;27(24):8894. doi: 10.3390/molecules27248894. PMID: 36558027; PMCID: PMC9783086.
8. Ravikumar, A.A.; Kulkarni, P.K.; Osmani, R.A.M.; Hani, U.; **Ghazwani, M.**; Fatease, A.A.; Alamri, A.H.; Gowda, D.V. Carvedilol Precipitation Inhibition by the Incorporation of Polymeric Precipitation Inhibitors Using a Stable Amorphous Solid Dispersion Approach: Formulation, Characterization, and *In Vitro In Vivo* Evaluation. *Polymers* **2022**, *14*, 4977. <https://doi.org/10.3390/polym14224977>
9. P. Sathishbabu, Umme Hani, C. Shakeela, P.R. Hemanth Vikram, **Mohammed Ghazwani**, Riyaz Ali M. Osmani, B.M. Gurupadayya, D.V. Gowda, A novel RP-HPLC method development and validation for simultaneous quantification of gefitinib and resveratrol in polymeric hybrid lipid nanoparticles and glioma cells, *Journal of Chromatography B*, Volume 1212, 2022, 123483, ISSN 1570-0232
10. <https://doi.org/10.1016/j.jchromb.2022.123483>. Paranthaman S, Uthaiyah CA, Osmani RAM, Hani U, **Ghazwani M**, Alamri AH, Fatease AA, Madhunapantula SV, Gowda DV. Anti-Proliferative Potential of Quercetin Loaded Polymeric Mixed Micelles on Rat C6 and Human U87MG Glioma Cells. *Pharmaceutics*. 2022 Aug 6;14(8):1643. doi: 10.3390/pharmaceutics14081643. PMID: 36015268; PMCID: PMC9412540.
11. Hani U, Rahamathulla M, Osmani RAM, Begum MY, Wahab S, **Ghazwani M**, Fatease AA, Alamri AH, Gowda DV, Alqahtani A. Development and Characterization of Oral Raft Forming In Situ Gelling System of Neratinib Anticancer Drug Using 3² Factorial Design. *Polymers (Basel)*. 2022 Jun 21;14(13):2520. doi: 10.3390/polym14132520. PMID: 35808569; PMCID: PMC9269124.
12. Begum MY, M Osmani RA, Alqahtani A, **Ghazwani M**, Hani U, Ather H, Atiya A, Rahamathulla M, Siddiqua A. Development of stealth liposomal formulation of celecoxib:

In vitro and in vivo evaluation. PLoS One. 2022 Apr 26;17(4):e0264518. doi: 10.1371/journal.pone.0264518. PMID: 35472207; PMCID: PMC9041753.

13. Sultan, M. H., Moni, S. S., Madkhali, O. A., Bakkari, M. A., Alshahrani, S., Alqahtani, S. S., Alhakamy, N. A., Mohan, S., **Ghazwani, M.**, Bukhary, H. A., Almoshari, Y., Salawi, A., & Alshamrani, M. (2022). Characterization of cisplatin-loaded chitosan nanoparticles and rituximab-linked surfaces as target-specific injectable nano-formulations for combating cancer. *Scientific Reports*, 12(1). <https://doi.org/10.1038/s41598-021-04427-w>
14. Hakami AR, Bakheit AH, Almehezia AA, **Ghazwani MY**. Selection of SARS-CoV-2 main protease inhibitor using structure-based virtual screening. *Future Med Chem*. 2022 Jan;14(2):61-79. doi: 10.4155/fmc-2020-0380. Epub 2021 Nov 24. PMID: 34814706; PMCID: PMC8612299.
15. **Mohammed Ghazwani**, Umme Hani, Riyaz Ali M. Osmani, Mohamed Rahamathulla, M. Yasmin Begum, Shadma Wahab, D. V. Gowda, Akhila Akkihebbal Ravikumar, Honnavalli Yogish kumar, Hissana Ather, Afrasim Moin, "An Efficient Herbal Approach for Treating Fungal Infection in Cervical Cancer Patients by Developing and Optimizing a Vaginal Suppository", *International Journal of Polymer Science*, vol. 2021, Article ID 9198387, 11 pages, 2021.
16. Mohamed Rahamathulla, Rohit Rajendra Bhosale, K.C. Mahima, Asha P. Johnson, Umme Hani, Riyaz A.M. Osmani, **Mohammed Ghazwani, M.** Yasmin Begum, Sultan Alshehri, Mohammed M. Ghoneim, Faiyaz Shakeel, H.V. Gangadharappa. "Carbon Nanotubes: Current Perspectives on the Diverse Applications in Targeted Drug Delivery and Therapies." *Materials* 2021. Accepted.
17. M. Yasmin Begum, Ali Alqahtani, **Mohammed Ghazwani**, M. M. Ramakrishna, Umme Hani, Akhtar Atiya, Mohamed Rahamathulla, "Preparation of Carbopol 934 Based Ketorolac Tromethamine Buccal Mucoadhesive Film: *In Vitro*, *Ex Vivo*, and *In Vivo* Assessments", *International Journal of Polymer Science*, vol. 2021, Article ID 4786488, 11 pages, 2021.
18. **Ghazwani, Mohammed**, M. Yasmin Begum, Prawez Alam, Mohammed H. Alqarni, Hasan S. Yusufoglu, and Faiyaz Shakeel. "Solubility Determination, Hansen Solubility Parameters and Thermodynamic Evaluation of Thymoquinone in (Isopropanol + Water) Compositions." *Molecules* 26, no. 11 (May 2021): 3195.
19. **Ghazwani, Mohammed**, Prawez Alam, Mohammed H. Alqarni, Hasan S. Yusufoglu, and Faiyaz Shakeel. "Solubilization of Trans-Resveratrol in Some Mono-Solvents and Various Propylene Glycol + Water Mixtures." *Molecules* 26, no. 11 (May 2021): 3091.
20. Madkhali, Osama A., Sivakumar Sivagurunathan Moni, Muhammad H. Sultan, Haitham A. Bukhary, **Mohammed Ghazwani**, Nabil A. Alhakamy, Abdulkarim M. Meraya,

et al. "Formulation and evaluation of injectable dextran sulfate sodium nanoparticles as a potent antibacterial agent." *Scientific Reports* 11, no. 1 (May 2021).

21. **Ghazwani, Mohammed Y.**, Ahmed H. Bakheit, Abdulrahim R. Hakami, Hamad M. Alkahtani, and Abdulrahman A. Almehizia. "Virtual Screening and Molecular Docking Studies for Discovery of Potential RNA-Dependent RNA Polymerase Inhibitors." *Crystals* 11, no. 5 (April 2021): 471.
22. Yasmin Begum, M., Ali Alqahtani, **Mohammed Ghazwani**, Noura Abdullah Alhamood, Umme Hani, Avanthi Jajala, and Mohamed Rahamathulla. 2021. "Development of Duloxetine Hydrochloride Tablets for Delayed and Complete Release Using Eudragit L 100." *International Journal of Polymer Science* 2021 (March): 1–10.
23. Mohammed H. ALQARNI, **Mohammed GHAZWANI**, Md. Khalid ANWER, Faiyaz SHAKEEL & Prawez ALAM. "Determination of Sunitinib Malate in Nanoparticles Formulation Using HPTLC-Densitometry Technique." *Lat. Am. J. Pharm.* 39 (11): 2279-84 (2020).
24. Hani, Umme, Riyaz Ali M. Osmani, Ali Alqahtani, **Mohammed Ghazwani**, Mohamed Rahamathulla, Sara Ayed Almorady, and Hind Ahmed Alsaleh. "23 Full Factorial Design for Formulation and Evaluation of Floating Oral In Situ Gelling System of Piroxicam." *Journal of Pharmaceutical Innovation*, July 2020
25. Alam, Prawez, Mohammad H. Alqarni, Pravej Alam, Ahmed I. Foudah, and **Mohammed Ghazwani**. "A HPTLC Method for Determination of Anethole in Essential Oil, Methanolic Extract of *Foeniculum vulgare* and Commercial Herbal Products." *Journal of Pharmaceutical Research International*, July 2020, 68–75.
26. Al-Sayari, A., **Ghazwani, M.**, Alhamhoom, Y., Almaghaslah, D., V. Louis, J., & Gurusamy, N. The antidepressant-like effect of almond oil: An additive effect with lavender oil. *Biomedical Research*, 2018; 29(18).
27. Almaghaslah, D., **Ghazwani, M.**, Alsayari, A., & Khaled, A. Pharmacy students' perceptions towards online learning in a Saudi Pharmacy School. *Saudi Pharmaceutical Journal*, 2018; 26(5), 617–621
28. Alsayari A, Almaghaslah D, Khaled A, Alhamhoom Y, Mohammad AA, **Ghazwani M**. Qualitative analysis of student perceptions assessing active learning methods in a therapeutics course. *King Khalid Univ J Health Sci* 2017;2:8-17.
29. Dalia Almaghaslah, Abdulrhman Alsayari, Lojain Almodeer, Jameelah Alfaifi, Reham Alshehri, Amaal Al-Shahrani, Arwa Khaled, **Mohammed Ghazwani**, Amira Abdel Motaal, Mona Almanasef. "A qualitative study exploring pharmacy education in a Saudi pharmacy school running two entry-level pharmacy programmes." *Pharmacy Education*, 2019;19 (1) 93-99

30. Abdulrahman Alsayari, **Mohammed Ghazwani**, Dalia Almaghaslah, Yahya Alhamhoom, Justin Louis, Jamila Altohami, Gaida Mana Al-Assiri, Ghadeer Sweelm Alaboghobar, Noura Alshahrani, Huda Hussain Alfaifi, Rajalakshimi.V. "Potential analgesic and diuretic activity of *Crataegus oxyacantha* Linn." *Research Journal of Pharmacy and Technology*. 2018 Jan 11(6):2476
31. Abdulrahman Alsayari, **Mohammed Ghazwani**, Dalia Almaghaslah, Yahya Alhamhoom, Maha Saad, Rawan Ahmed, Wafa Saeed, Wijden Ali, and Sadia Batool. "Bombax ceiba: A Potential Anti-Anxiety Drug." *Pharmacognosy Journal*. 2018 Apr 10(4):712-714
32. Jiang Li, **Mohammed Ghazwani**, Ke Liu, Yixian Huang, Jie Fan, Fengtian He, Wen Xie, Xiaochao Ma, and Song Li. "Regulation of Hepatic Stellate Cell Proliferation and Activation by Glutamine Metabolism." *PLoS One*. 2017 Aug 10;12(8):e0182679
33. Xiaolan Zhang, Yixian Huang, **Mohammed Ghazwani**, Peng Zhang, Jiang Li, Stephen H. Thorne, and Song Li. "Tunable pH-Responsive Polymeric Micelle for Cancer Treatment." *ACS Macro Lett.*, 2015, 4 (6), pp 620–623
34. Zhang P, Li J, **Ghazwani M**, Zhao W, Huang Y, Zhang X, Venkataramanan R, Li S. "Effective co-delivery of doxorubicin and dasatinib using a PEG-Fmoc nanocarrier for combination cancer chemotherapy." *Biomaterials*. 2015 Jul 15;67:104-114.
35. Lu J, Liu C, Wang P, **Ghazwani M**, Xu J, Huang Y, Ma X, Zhang P, Li S. "The self-assembling camptothecin-tocopherol prodrug: An effective approach for formulating camptothecin." *Biomaterials*. 2015 Sep; 62:176-87.
36. Zhang, Yifei, **Mohammed Ghazwani**, Jiang Li, Ming Sun, Donna B. Stolz, Fengtian He, Jie Fan, Wen Xie, and Song Li. "MiR-29b Inhibits Collagen Maturation in Hepatic Stellate Cells through Down-regulating the Expression of HSP47 and Lysyl Oxidase." *Biochemical and Biophysical Research Communications* (2014): Apr 18;446(4):940-4.
37. **Ghazwani, Mohammed**, Yifei Zhang, Xiang Gao, Jie Fan, Jiang Li, and Song Li. "Anti-fibrotic Effect of Thymoquinone on Hepatic Stellate Cells." *Phytomedicine* 21.3 (2014): 254-60.
38. Li, Jiang, **Mohammed Ghazwani**, Yifei Zhang, Jianqin Lu, Jilong Li, Jie Fan, Chandrashekhar R. Gandhi, and Song Li. "MiR-122 Regulates Collagen Production via Targeting Hepatic Stellate Cells and Suppressing P4HA1 Expression." *Journal of Hepatology* 58.3 (2013): 522-28

BOOK CHAPTERS

1. Jiang Li, Jianqin Lu, Yifei Zhang, **Mohammed Ghazwani**, Peng Zhang, Xiang Gao and Song Li (2013). *RNAi in Liver Diseases. Advanced Delivery and Therapeutic Applications of RNAi*, John Wiley and Sons, Ltd: 327-366. ISBN: 9781118610749