

Muhammad Ahsan Khan

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To establish myself as a competent teacher and researcher in a motivating, competitive and learning environment where my abilities can be put to use.

Skills

- Teaching Pharmaceutical Sciences
- Pharmaceutical Research
- Solubility Enhancement
- Expertise in Design of Experiment
- Formulation Design & Development
- Drug Delivery

Experience

13 NOVEMBER 2023 – PRESENT

Assistant Professor / HBS College of Pharmacy, Islamabad

Teaching undergraduate students (Pharm-D) and my additional responsibilities includes: Focal person for University of Sargodha & PCP, Affiliation renewal (Dossier Preparation), student's registration with Sargodha University & PCP, Faculty coordinator, Admission Committee and member of QEC.

01 AUGUST 2022 – 12 NOVEMBER 2023

Lecturer / HBS College of Pharmacy, Islamabad

Taught biochemistry and my additional responsibilities were Affiliation renewal, student's registration with Sargodha University and member of QEC.

01 JULY 2021 – 31 AUGUST 2021

Assistant Professor / National Institute of Medical and Management Sciences, Islamabad

Worked for establishment of new Pharmacy department.

02 MARCH 2020 – 31 JANUARY 2021

Visiting Lecturer / COMSATS University Islamabad, Abbottabad

I have taught Pharmaceutical Quality Management, Dosage form and Hospital Pharmacy.

30 NOVEMBER 2018 – 31 JULY 2019

Guest Ph.D. / University of Copenhagen, Denmark

Learned new techniques for development and characterization of pharmaceutical dosage forms.

01 SEP 2016 – 31 SEPTEMBER 2017

Research Associate / COMSATS University Islamabad, Abbottabad.

Successfully developed formulation of poorly soluble drugs with enhanced solubility and bioavailability.

Education

SEPTEMBER 2015 – AUGUST 2022

Ph.D. (Pharmaceutics)/ COMSATS University

Islamabad, Abbottabad.

Completed.

SEPTEMBER 2013 - AUGUST 2015

**MS in Pharmacy / COMSATS University Islamabad,
Abbottabad.**

Completed

SEPTEMBER 2008 – AUGUST 2013

**Pharm-D. / COMSATS University Islamabad,
Abbottabad.**

Completed

Publications

1. Khan, Saqib, Aneela Tahir, Ali Farhan, Talha Ahmed Khalid, **Muhammad Ahsan Khan**, Abrar Ahmad, Waqar Ahmad, Sobia Fazal, Muhammad Mehmood Moin ul Haq, and Saba Gul. "A Scoping Review on Venom Toxicity of Pakistani Brown Cobra (*Naja oxiana*): Emerging Synthetic Therapeutics and Challenges in Current Treatment Approaches." *Journal of Pharma and Biomedics* 3, no. 2 (2025): 365-373.
2. Shaheen, Farhat, Maryam Javaid, Ayesha Awan, **Muhammad Ahsan Khan**, Mobeen Ghulam Ahmed, Aisha Rashid, Shumaila Mehdi, et al. 2025. "Design, Synthesis, Molecular Docking, and Pharmacological Evaluation of 2-Aminobenzimidazole Derivatives as Potential Anti-Alzheimer's Agents". *Indus Journal of Bioscience Research* 3 (10): 176-84 <https://doi.org/10.70749/ijbr.v3i10.2451>
3. Saqib Khan, Aysha Mushtaq, **Muhammad Ahsan Khan**, Muhammad Mehmood Moin ul Haq, Aneela Tahir. "Pharmacoeconomic Burden and Cost-Reduction Impact of Pharmacist-Led Brand Substitution in Hypertension Management: A Cross-Sectional Study from Pakistan". *Frontier in Medical and Health Research*. October 23, 2025 <https://doi.org/10.5281/zenodo.17432170>
4. Khan S, **Ahsan M**, Mushtaq A. Demographics and Comorbidities associated with hypertension and Prescription Practices by Junior House Officers for Disease Management in Relation to Clinical Guidelines. *HMDJ*. 2024 Dec; 04(02): 60-64. <https://doi.org/10.69884/hmdj.4.2.9273>
5. Alotaibi, Badriyah Shadid, **Muhammad Ahsan Khan**, Kaleem Ullah, Haya Yasin, Abdul Mannan, Shujaat Ali Khan, and Ghulam Murtaza. "Formulation and characterization of glipizide solid dosage form with enhanced solubility." *Plos one* 19, no. 2 (2024): e0297467.
6. **Khan, Muhammad Ahsan**, Kaleem Ullah, Nisar ur Rahman, Arshad Mahmood, Anette Müllertz, Abdul Mannan, Ghulam Murtaza, and Shujaat Ali Khan. "Formulation, characterization and in-vitro evaluation of self-nanoemulsifying drug delivery system containing rhamnolipid biosurfactant." *Journal of Drug Delivery Science and Technology* 75 (2022): 103673.
7. Feudjio, Césaire, Guy Sedar Singor Njateng, Mathilde Julie Klang, Muhammad Arfat Yameen, **Muhammad Ahsan Khan**, and Jules-Roger Kuate. "Response Surface Methodology Applied to the Optimization of the Preparation of Antioxidant and Antidiabetic Extracts from *Phragmanthera capitata* (Spreng.) Balle: Effect of Particle Size, Powder-to-Solvent Ratio, and Temperature." *Evidence-Based Complementary and Alternative Medicine* 2022 (2022).
8. Zaheer U., Anam Razzaq, **Ahsan Khan**, Naeem U. Rehman, Hira Khan, Taous Khan, Ashraf U. Khan, Farid Menaa, Haroon Iqbal, and Naveed U. Khan. 2022. "Physicochemical

Characterizations and Pharmacokinetic Evaluation of Pentazocine Solid Lipid Nanopartides against Inflammatory Pain Model" *Pharmaceutics* 14, no. 2: 409.

<https://doi.org/10.3390/pharmaceutics14020409>

9. Njoku IS, Ichide MU, Rahman N, **Khan AM**, Chibuko NA, Asekun OT, Oluwole B. Familoni OB. Extraction, Characterization and Larvicidal Activity of Essential Oil and Hydrosol from *Sida acuta* Burm. f. Leaves Grown in Nigeria. *Trop J Nat Prod Res.* 2021; 5(1):211-216. <https://doi.org/10.26538/tjnpr/v5i1.29>
10. Césaire Feudjio, Muhammad Arfat Yameen, Guy Sedar Singor Njateng, **Muhammed Ahsan Khan**, Stephen Lacmata Tamekou, James Deke Simo Mpetga, Jules-Roger Kuate, "The Influence of Solvent, Host, and Phenological Stage on the Yield, Chemical Composition, and Antidiabetic and Antioxidant Properties of *Phragmanthera capitata* (Sprengel) S. Balle", *Evidence-Based Complementary and Alternative Medicine*, vol. 2020, Article ID 6284925, 16 pages, 2020. <https://doi.org/10.1155/2020/6284925>
11. Ullah, K., Sohail, M., Buabeid, M. A., Murtaza, G., Ullah, A., Rashid, H., **Khan, M.A.**, Khan, S. A. (2019). Pectin-based (LA-co-MAA) semi-IPNS as a potential biomaterial for colonic delivery of oxaliplatin. *International journal of pharmaceutics*, 569, 118557. <https://doi.org/10.1016/j.ijpharm.2019.118557>
12. Yadang, F., Adeline, S., Taiwe Sotoing, G., Zouakeu, N., Sidoine, K., Khan, **M. A.**, ... & Ngo Bum, E. (2019). Quantification of Bioactive Compounds and Evaluation of the Antioxidant Activity of *Carissa edulis* Valh (Apocynaceae) Leaves. *The Scientific World Journal*, 2019.
13. Saima, K., **Khan, M. A.**, & Shazia, E. (2014). Physiochemical composition and cooking time evaluation of chickpea samples of Islamabad Pakistan. *Lifesciences Leaflets*, 58, 40-45.
14. Raza, I., Bibi, N., **Khan, M. A.**, Anwar, M. Z., & Bukhari, S. (2014). Use of mixture design for the sensory evaluation of carrot and orange juice. *Pakistan Journal of Nutrition*, 13(11), 661-665.
15. Naseem, K., Bibi, N., Raza, S., Mumtaz, A., Siddiqui, N. R., Bibi, A., & **Khan, M. A.** (2013). Development, characterization and evaluation of high energy biscuits for combating malnourishment among children in Pakistan. *Pakistan Journal of Agricultural Research*, 26(3), 230-236.

Conference and Workshops

- Attended International Conference On Emerging Trends in Pharmaceutical Sciences, held on 11th March 2023 at Capital University of Science and Technology, Islamabad.
- Poster Presentation at 6th International Conference on Drug Development, held on 29th & 30th November 2019 at COMSATS University Islamabad, Abbottabad Campus.
- Attended two-day Training workshop on Scientific writing, held on 1st & 2nd October 2019 at COMSATS University Islamabad, Abbottabad Campus.
- Attended and Organized 1st National Conference on Current Updates in Pharmacy Profession and Research, held on 29th & 30th July 2019 at COMSATS University Islamabad, Abbottabad Campus.

Research skills & techniques

- Drug dissolution
- Solubility Enhancement
- HPLC (High Performance Liquid Chromatography)
- Rheometer
- Particles Size Analyzer
- Differential scanning calorimeter
- X-ray diffractometry
- UV-Vis Spectrophotometer
- Scanning electron Microscopy

- Transmission Electron Microscopy
- Polarized Light Microscopy
- Cytotoxicity studies
- Animal Handling

References

Dr. Shujaat Ali Khan

Associate Professor

Department of Pharmacy,

COMSATS University Islamabad.

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Mr. Hafiz Amir Kharl

Lecturer

University of Agriculture

Faisalabad.

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