Dr. Muhammad Siddiq (Ph.D. Pharmaceutical Sciences)

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Research Interest:

- Molecular Biology
- Diabetes Mellitus
- Pharmacological Activities

Professional Summary:

I am a pharmacist with a Ph.D. in pharmaceutical sciences**,** part of which I completed as a Visiting Research Scholar at the University of Texas at Austin, USA. I have strong expertise in drug development, research, and pharmaceutical manufacturing, along with effective teaching skills that help me simplify complex concepts. My combined academic, research, and industry experience enables me to bridge theory and practice and remain committed to excellence in the field.

Education:

Doctor of Philosophy (PhD) in Pharmaceutical Sciences Abdul Wali Khan University, Pakistan 2025
Research topic: "Synthesis and molecular simulation studies of chalcone derivatives and their anti-diabetic potential"

Master of Philosophy (M.Phil) in Pharmaceutical Sciences Abdul Wali Khan University, Pakistan 2019.
Research topic: "Evaluation of *Boerhavia Procumbens* Metnanolic and Aqueous Extracts for Laxative Activity."

Pharm.D (Doctor of Pharmacy) Hazara University, Pakistan 2015
Project topic: Various treatment option for treatment of Multi drug resistance Tuberculosis and its outcomes.

FSc (Faculty of Science) Board of intermediate and secondary education Mardan, Pakistan 2009.

SSC (Secondary School Certificate) Board of intermediate and secondary education Mardan, Pakistan 2006.

List of Publications:

1**. M. Siddiq**., Ali, B., Ullah, S., Halim, S. A., Rehman, Z., Muhammad, N., Riaz, M., Hussain, N., Ghufran, M., & Akbar, I. (2025). Synthesis of (E)-3-(aryl)-1-phenylprop-2-en-1-one Chalcone Derivatives for Hyperglycemic Effect in Diabetes: In-vitro, In-vivo and In-silico Approach. Current Medicinal Chemistry.

2. Aiman Begum, Zakirulla, Hafiz Sajid Akbar, Muhammad Ikram, **Muhammad Siddiq**, Adil Khaliq, Ali Khan. Association of *cyp2d6* variant with pre-eclampsia Response to labetalol therapy in hypertensive pregnant Patients from khyber pakhtunkhwa, Pakistan. Journal of Medical & Health Sciences Review (JMHSR) Volume 3, 2026.

3. Mubashar Ali, Dur-E-Najaf Khan, **Muhmmad Siddiq**, Hafiz Sajid Akbar. Prevalence of overactive bladder syndrome (OAB) among Individuals and its prevention through improved strategies, a cross-Sectional study. Annual Methodological Archive Research Review. Volume 4, issue 5 (2026).

4. Sajjad Ahmad, Muhammad Ayaz, **Muhammad Siddiq**, Anam Saleem,In Vitro Multi-Target Enzyme Inhibitory Potential of a Novel Trisamine Derivative against Acetylcholinesterase, Butyrylcholinesterase, Monoamine Oxidase-B and β-Secretase-1. Phytopharmacology Research Journal (PRJ) Open Access. (2026).

5. Muhammad Faizan, **Muhammad Siddiq**, Nasib Ur Rahman, Muhammad Zaheer, Assessment of The Vaccination Status, Knowledge, And Awareness of Hepatitis B Among Allied Health Sciences Students At Khyber Medical University, Peshawar**.** Frontier in Medical & Health Research. Volume 4, Issue 3, 2026.

6. Rehman Zafar, Muhammad Fahid, **Muhammad Siddiq**, Muhammad Tufail.Exploring the Pharmacological Activities of Sulphonyl Hydrazides and Their Metal Complexes as Anti-Bacterial, Anti-Fungal and Anti-Oxidant Moieties. Multidisciplinary Surgical Research Annals. Volume 4, Issue 1, 2026.

7. Nadia Abrar, Hafiz Sajid Akbar, **Muhammad Siddiq**, Naila Shahbaz**.** Schiff base derivative of aldehydes with diamino compound and their anti-inflammatory activity. Pakistan Journal of Medical & Cardiological Review. Volume 5, issue, 2 (2026).

8. Mehreen Huma, Hina Javid, **Muhammad Siddiq**, Dur-E-Najaf Khan. Biological Investigation of Nitrogen-Containing Bioactive Compound for Pain Relief and Fever Management. Multidisciplinary Surgical Research Annals. Volume 4, Issue 2 (2026).

9. Majid Khan, **Muhammad Siddiq,** Mian Muhammad Hisam**.** Comparative Assessment of Metformin vs GLP-1 RAs on Triad of Metabolic Syndrome among Diabetics: An Observational Study. Pakistan Journal of Medical & Cardiological Review Volume 5(2026).

10. Muhammad Ikram, Saqib Jahan, **Muhammad Siddiq**, Hafiz Sajid Akbar. (2025). Evaluation of the Antidepressant-like Effects of New Aurone Derivatives in BALB/c Swiss Albino Mice: A Behavioral Study. Indus Journal of Bioscience Research. Volume 3 Issue 12 (2025)

11. Saddam Hussain, Muhammad Ikram, Abdul Saboor Pirzada , Salar Muhammad , Omer Shehzad , Ali Khan , **Muhammad Siddiq** , Yasar Shah (2025). Evaluation of Public Perception and Practice about Disposal of Unused And expired Medicines in Selected Region of Khyber Pakhtunkhwa. Insights – Journal of Health and Rehabilitation. Volume 3 Issue 4 (2025).

12**.** Muhammad Ikram, Ismail Shah, Abdul Saboor Pirzada, Ali Khan, Aini Pervaiz, **Muhammad Siddiq,** Farhatullah Jan (2025). Structural and Spectroscopic Elucidation of Aurone Derivatives: An Analytical Investigation. The Research of Medical Science Review. Volume 3, Issue 8, 2025

13**.** Abdul Saboor Pirzada, Muhammad Ikram, Salar Muhammad, **Muhammad Siddiq**, Ali Khan, Zahoor Islam (2025). Exploring the Therapeutic Potential of Microbiome-Derived Postbiotics in Chronic Inflammatory Disorders. J. Pharma. Bio. Med., 03 (02) 2025. 109-117.

14. Atif Nadeem, Yasar Shah, Abdul Saboor Pirzada, Ali Khan, Uzma Mumtaz , **Muhammad Siddiq** ,Muhammad Ikram. (2025). Socio-Demographic and clinical correlates of Schizophrenia prevalence: Across-Sectional Analysis of symptom patterns and risk factors in a Pakistani psychiatric cohort. Review Journal of Neurological & Medical Sciences Review (RJNMSR) Volume 3, Issue 4.

15. Khan, H. A., Ullah, M., Ghufran, **M. Siddiq**, M., & Gul, M. (2024). The Prevalence of Covid19 in High-Risk District of Kpk, Mardan, Pakistan. Journal of Bacha Khan Medical College, 5(02), 179-187

16. Ghufran, M., Ullah, M., Khan, H. A., Ghufran, S, Ayaz, **M. Siddiq**, M. & Bungau, S. (2023). Insilico lead druggable compounds identification against SARS COVID-19 main protease target from in-house, chembridge and zinc databases by structure-based virtual screening, molecular docking and molecular dynamics simulations. Bioengineering, 10(1), 100.87.

17. Ghufran, M., Khan, H. A., Ullah, M., Ghufran, S., Ayaz, **M. Siddiq**, M. & Bungau, S. (2022). In silico strategies for designing of peptide inhibitors of oncogenic K-ras G12V mutant: inhibiting cancer growth and proliferation. Cancers, 14(19), 4884.

18. Shahab, M., Ullah, M., Khan, H. A., Ghufran, M., Billah, **M. Siddiq**. (2022). Allosteric Modulation of Aurka Kinase Activity by Arkin-A via Dynamic Correlation Network Analysis. Journal of Bacha Khan Medical College, 3(01), 56-65.

19. Shah, L., Ghufran, M., Khan, H. A., Billah, M., Ahmed, N., Riaz, **M. Siddiq**. (2022). Identification of New Cyclooxygenase-2 Selective Inhibitors via Virtual Screening and Complex-Based Pharmacophore Mapping. Journal of Bacha Khan Medical College, 3(01), 45-55.

Professional Experience:

Lecturer: November, 2025 till to date.

I am currently serving as a Lecturer in the Department of Pharmacy at Bacha Khan University, Charsadda, Pakistan. My teaching responsibilities include delivering undergraduate courses in Bio pharmaceutics and Pharmacokinetics to Pharm.D students, along with active involvement in academic and extracurricular activities.

Lecturer: (June 2023 – October 2025)

I was hired as a Lecturer at Vertex Institute of Science and Technology, Mardan, to help start the Department of Pharmacy. Later, I taught Pharm-D students, updated the curriculum, organized academic activities, guided students, and set up Pharm-D labs with equipment and documentation.

Pharmacist at Pharmaceuticals Distribution: (May 2019- May 2023)

As a Pharmacist at Global Pharmaceutical Distribution, Mardan, Pakistan, I was responsible for the proper storage and distribution of pharmaceutical products. My duties included inventory management, record keeping, and monitoring of expiry dates. I ensured compliance with Good Distribution Practices (GDP) and the timely supply of medicines.

Quality Control Analyst: (July 2018 - April 2019)

As a Quality Control Analyst at Osawa Pharmaceuticals, Nowshehra, Pakistan. I carried out routine tests on raw materials and finished products. I ensured GMP compliance and maintained proper documentation of quality records. I also assisted in production activities, gaining practical experience in pharmaceutical manufacturing.

Quality Control Analyst: (April 2017 – June 2018)

As a Quality Control Analyst at Rock Pharmaceuticals, Nowshehra, Pakistan. I performed key analytical tests, supported method validation, and ensured GMP compliance. I also assisted in production processes, giving me a solid understanding of both quality control and pharmaceutical manufacturing.

Quality Control Analyst: (March 2016 – March 2017)
As a Quality Control Analyst at Hicon Pharmaceuticals, Peshawar, Pakistan. I ensured product quality through analytical testing, including HPLC, UV, dissolution, disintegration, and microbial analysis. I also worked with production teams to maintain batch consistency, in-process quality control, and compliance with SOPs and GMP standards.

Research Skills:

As a skilled researcher, I specialize in the synthesis of various synthetic molecules and compounds, along with their characterization followed by evaluation of its pharmacological activities by using various animals' models. I am proficient in preparing histological slides from animal organs for microscopic examination and its interpretation. Additionally, I am highly skilled in using advanced analytical instruments commonly used in research, such as UV-Vis spectroscopy, High-Performance Liquid Chromatography (HPLC), Nuclear Magnetic Resonance (NMR), Fourier-Transform Infrared Spectroscopy (FTIR), Gas Chromatography-Mass Spectrometry (GC-MS), and Liquid Chromatography-Mass Spectrometry (LC-MS).

Conferences/ Workshops:

1. International Seminar on Therapeutics, Control, and Prevention of Dengue and Other Infectious Diseases at University of Swabi Pakistan.
2. Online seminar on Diagnosis and Management of Type 2 Diabetes Mellitus (T2DM).
3. Workshop on Diagnostic Laboratory Safety and Management.
4. Conference on World Pharmacist Day.
5. Seminar on Dengue Awareness and Prevention.
6. Online Course on TB Management.
7. Attend 7 online courses about lab safety through UT Learn, University of Texas at Austin USA
8. 1st international conference on Climate change adaptation and policy pathway for resilient future at Bacha Khan University, Charsadda Pakistan.

Achievements:

1. International Research Support Initiative Program Scholarship (IRSIP) for PhD at UT Austin USA.
2. Prime Minister's fee reimbursement scholarship for M.Phil Degree (Covering Full tuition fee).
3. Development of PharmD Program at Vertex Institute of Science and Technology Mardan Pakistan.

Reviewer Role in Scientific Journal:

I serve as a reviewer for the Bioequivalence & Bioavailability International Journal, contributing to the academic and scientific community.

Memberships:

1. Member of Pakistan Pharmacist association.
2. Vice president Young Pharmacist Community district Mardan KP.
3. Member of American society of Microbiology.

Hobbies:

Reading books, Traveling, Photography.

Languages:

- English
- Urdu
- Pashto

References:

1. Professor. Dr. Naveed Muhammad, Department of Pharmacy Abdul Wali Khan University, Mardan, Pakistan
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