

CURRICULUM VITAE

Khyber Medical University, Peshawar

1. Personal Information

Name: Dr. Abdur Razaq

Designation: Lecturer

Department: Institute of Pharmaceutical Sciences, Khyber Medical University

Nationality: Pakistan

Gender: Male

Date of Birth: 04 August 1990

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2. Professional Summary

- Pharmacist by profession, holding a BS (Hons) Pharm-D, an MSc in Pharmacology, and a PhD in Pharmacogenomics.
- Currently working as a Lecturer at the Institute of Pharmaceutical Sciences, Khyber Medical University, Peshawar (December 2025–present).
- Research interests lie in pharmacogenetics and pharmacogenomics, pharmacokinetics (HPLC), precision medicine, and animal handling/model development; PhD work focused on multiplex PCR optimization for clopidogrel resistance and the impact of ABCB1/CYP2C19 gene polymorphisms on clopidogrel plasma concentration and cardiovascular outcomes.
- Completed a fully funded six-month PhD exchange program at the Faculty of Pharmaceutical Sciences, Ghent University, Belgium (globally ranked #159), working on next-generation sequencing, Oxford Nanopore technology, and bioinformatics tools.
- Experienced in supervising and mentoring junior researchers, having served as a Research Associate and supervised master's students in laboratory techniques and research design.

3. Academic Qualifications

Degree	Institution	Year
PhD, Pharmacogenomics Thesis: “Association of ABCB1 and CYP2C19 with Clopidogrel Plasma Concentration in Cardiovascular Disease Patients” (Defended 9 October 2025) Advisor: Prof. Dr. Sami Siraj	Khyber Medical University, Peshawar, Pakistan	2020 – 2025
MSc, Pharmacology Coursework: CNS & ANS Pharmacology, Molecular Biology, Cell Biology, Medical Genetics, Biosafety & Biosecurity Project: ACE Inhibitors and Diabetic Nephropathy Advisor: Prof. Dr. Shafiq Ahmad Tariq	Khyber Medical University, Peshawar, Pakistan	2016 – 2018
BS (Hons, 5-year) Pharm-D Project: Management of Chronic Obstructive Pulmonary Disease Advisor: Dr. Ghayour Ahmad	Kohat University of Science and Technology, Pakistan	2010 – 2015

4. Professional Experience

Position	Organization	Duration
Lecturer	Institute of Pharmaceutical Sciences, Khyber Medical University, Peshawar, Pakistan	12/2025 – Present
PhD Exchange Scholar	Faculty of Pharmaceutical Sciences, Ghent University, Belgium	06/2024 – 12/2024
Research Associate	Institute of Basic Medical Sciences, Khyber Medical University, Peshawar, Pakistan	11/2017 – 10/2019

5. Areas of Specialization / Research Interests

- Pharmacogenetics and Pharmacogenomics.
- Pharmacokinetics — HPLC-based analysis.
- Precision Medicine.
- Animal Handling and Disease Model Development.

Research Skills & Techniques

- Sequencing & genotyping: Sanger sequencing, next-generation sequencing (NGS), Oxford Nanopore Technology (ONT), TaqMan assay.
- Molecular biology: Conventional and RT-PCR, multiplex PCR, DNA extraction (manual and kit-based, from blood/tissue/stool), bacterial plasmid and genomic DNA isolation, RNA extraction, cDNA synthesis, gel electrophoresis, Western blot, PCR product purification (AMPure beads).
- Quantification: DNA/dsDNA quantification via Qubit, NanoDrop, and Pico Green fluorometric assays.
- Cell & animal work: Cell culture, in vivo tumor growth development, cell counting, drug assays and staining; animal handling (oral dosing, injection, blood collection, organ dissection), open field and dark/light box studies.
- Analytical chemistry: Chromatography, HPLC, rotary evaporation; computer-aided drug designing.
- Software & data analysis: SPSS, GraphPad Prism, SnapGene, Finch TV, Microsoft Office, AI tools for medical education.
- Strategic planning, laboratory supervision, and preparation of culture media/inoculation.

6. Publications

Key Selected Publications

- Iqbal W, Razaq A, Shah ST, Tariq SA, Rahim S, Siraj S. Impact of gender on long-term clinical outcomes and major adverse cardiovascular events in patients undergoing percutaneous coronary intervention receiving clopidogrel therapy: a follow-up study. *Naunyn-Schmiedeberg's Archives of Pharmacology*, Springer Nature, 2026. <https://doi.org/10.1007/s00210-026-05081-7>
- Razaq A, Iqbal W, Shah ST, Rauf MA, Aldekhail NM, Van Nieuwerburgh F, Siraj S. Impact of ABCB1 gene polymorphism on clopidogrel plasma concentration and cardiovascular events in post-PCI patients. *Pharmacogenomics*, 2025:1–8. <https://doi.org/10.1080/14622416.2025.2534325>
- Razaq A, Iqbal W, Shah ST, Ali M, Siraj S. Impact of CYP2C19*2 on clopidogrel response and cardiovascular outcomes in ST-segment elevation myocardial infarction patients. *Pakistan Journal of Medical Sciences*, 42(1), January 2026. <https://doi.org/10.12669/pjms.42.1.12358>
- Ali M, Mufti AA, Razaq A, Ali HZ, Deforce D, Gansemans Y, Van Nieuwerburgh F. A retrospective study on clozapine-induced blood dyscrasias in the first 20 weeks of therapy. *Journal of Psychiatric Research*, 2025, pp. 491–500. <https://doi.org/10.1016/j.jpsychires.2025.09.081>
- Razaq A, Khan A, Shah ST, Ullah S. Association of insertion/deletion polymorphism of ACE gene with essential hypertension in patients of Khyber Pakhtunkhwa. *Pakistan Journal of Medical Sciences*, 2024;40(3):461–466. <https://doi.org/10.12669/pjms.40.3.7354>

- Razaq A, et al. Association of angiotensin converting enzyme gene polymorphism with diabetic nephropathy in patients using lisinopril. Indian Journal of Pharmacy and Pharmacology, 2022;9(2):96–102.

7. Patents

None reported.

8. Research Grants & Projects

None reported.

9. Book Chapters

None reported.

10. Student Supervision

- Supervised two MPhil/MSc students for six months each.
- As Research Associate at the Institute of Basic Medical Sciences, KMU (2017–2019), assisted lab fellows with research article editing, project design and writing, data interpretation, statistical analysis, and teaching of laboratory techniques.
- Served as in-charge of the Pharmacogenomics lab during PhD studies.

11. Achievements & Awards

- Awarded a fully funded 6-month PhD exchange program to Ghent University, Belgium, under the International Research Support Initiative Program (IRSIP), Higher Education Commission of Pakistan.
- PhD Indigenous Full Scholarship, Higher Education Commission of Pakistan, in the area of Pharmacology (2020–2025).
- Full Scholarship, Punjab Education Endowment Fund, Pakistan (PEEF), for MPhil studies (2016–2018).
- Awarded 10 fee-reimbursement awards based on academic performance during 5 years of study (2010–2015), Kohat University of Science and Technology, Pakistan.

Language Proficiencies

Urdu	English	Dutch
Native	Fluent	Beginner (A1)

12. References

Prof. Dr. Sami Siraj, PhD (China)

HOD, Institute of Pharmaceutical Sciences, Khyber Medical University, Pakistan.

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Prof. Dr. Yasar Yousafzai, PhD (Glasgow)

Director, Public Health Reference Laboratory, Khyber Medical University, Pakistan.

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Prof. Filip Van Nieuwerburgh

Faculty of Pharmaceutical Sciences, Ghent University, Belgium.

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