

CURRICULUM VITAE

Khyber Medical University, Peshawar

1. Personal Information

Name: Kiran Ijaz

Designation: Lecturer

Department: Institute of Pharmaceutical Sciences

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2. Academic Qualifications

Degree	Discipline	Institution	Year
PhD	In Progress	Khyber Medical University (KMU), Peshawar	
MPhil	Pharmacology	Khyber Medical University (KMU), Peshawar	Feb 2021 – Oct 2023
Pharm-D	Doctor of Pharmacy	University of Peshawar	Feb 2012 – Feb 2017

Research Projects

- MPhil:** Effect of *GRK5* Variant (rs10886471) on the Therapeutic Effect of Repaglinide in Type 2 Diabetes Mellitus Patients (HEREF-funded; PI: Dr. Zakiullah; Supervisor: Dr. Haji Bahadar; Co-supervisor: Dr. Zakiullah, Assistant Professor, Department of Pharmacy, University of Peshawar).
- Pharm-D:** Management of Urinary Tract Infection (Supervisor: Dr. Gohar Ali, Assistant Professor, Department of Pharmacy, University of Peshawar).

3. Professional Experience

Position	Organization	Duration
Lecturer	Khyber Medical University (KMU), Peshawar	Dec 2025 – Present
Teaching Assistant	Khyber Medical University (KMU), Peshawar	Jan 2025 – Nov 2025
Visiting Lecturer – Pharmacy	Khyber Medical University (KMU), Peshawar	Dec 2023 – Jun 2024
Visiting Lecturer – Pharmacy	Pharmacy Department, University of Peshawar	Feb 2022 – Nov 2024

Position	Organization	Duration
Research Assistant	Pharmacogenomics Laboratory, University of Peshawar (PI: Dr. Zakiullah)	Jan 2022 – Jan 2024
Lecturer	Bab-al-Madina Institute of Medical Sciences, Peshawar	Jan 2018 – Jan 2021

4. Administrative Responsibilities

- **Laboratory In-Charge:** Served as in-charge of the Pharmacogenomics Laboratory University of Peshawar (2022–2024) during the Research Assistant appointment, overseeing day-to-day operations, equipment maintenance, and laboratory safety compliance
- **Lead Organizer,** Workshop on Computational Drug Designing, KMU Institute of Pharmaceutical Sciences (IPS).
- **Organizer,** "Mastering 16S rRNA Microbial Diversity Data Analysis" (QIIME 2) Workshop, KMU Institute of Pharmaceutical Sciences (IPS), June 2026.

5. Areas of Specialization / Research Interests

- **Pharmacogenomics & Personalised Medicine** — tailoring therapeutic strategies to individual genetic profiles for improved treatment outcomes.
- **Cancer Genetics** — exploring the molecular and genetic basis of oncogenesis and cancer susceptibility.
- **Type 2 Diabetes Mellitus** — genetic susceptibility and pharmacogenomics of anti-diabetic drug response.
- **Molecular Genetics of Chronic Diseases** — investigating gene-disease relationships underlying complex, long-term conditions.
- **Genetic Variant Association Studies** — population-based case-control designs to identify disease- and drug-response-associated genetic variants.

Technical Skills & Competencies

- **Molecular Biology:** DNA extraction & purification, PCR optimisation & troubleshooting, gel electrophoresis (agarose & polyacrylamide), DNA quantification, primer design.
- **Pharmacogenomics:** Study design & execution, genetic variant analysis, genotyping (PCR-based, MassARRAY), case-control association studies.
- **Bioinformatics:** Primer3, BLAST, NCBI databases, genetic data analysis & interpretation.
- **Laboratory Practice:** Biological sample handling, pipetting accuracy, buffer & media preparation, BSL-2 laboratory protocols, lab management.
- **Research & Writing:** Scientific manuscript writing & editing, literature review, statistical data analysis, project design, Prism GraphPad, ImageJ, EndNote.

6. Publications

Summary:

Total Publications: 7 (1 first-author, 6 co-author)

Impact Factor Publications: 03

HEC W Category: 04

HEC X Category: 01

HEC Y Category:02

Full List of Publications

- Ijaz K, Zakiullah, Shah H, Ali S, Raziq M, Bahadar H. Association of GRK5 variant rs10886471 with the therapeutic effect of repaglinide in patients of type 2 diabetes mellitus in Peshawar, Pakistan. Pakistan Journal of Pharmaceutical Sciences. 2024;37(2). doi:10.36721/PJPS.2024.37.2.SP.451-455.1
- Babaresh WM, Zakiullah, Sohail SA, Faisal M, Begum A, Shah H, Baig A, Hassan ZU, Ijaz K, Shah SMM, Ullah A. Pharmacogenomic insights into amlodipine response: the role of CACNA1D, CACNA1C, and TRIB3 variants in hypertensive patients. PLOS ONE. 2024. doi:10.1371/journal.pone.0329263
- Jan A, Zakiullah, Ali S, Muhammad B, Arshad A, Shah Y, Bahadur H, Khan H, Khuda F, Akbar R, Ijaz K. Decoding type 2 diabetes mellitus genetic risk variants in Pakistani Pashtun ethnic population using nascent whole exome sequencing and MassARRAY genotyping: a case-control association study. PLOS ONE. 2023;18(1):e0281070. doi:10.1371/journal.pone.0281070
- Ali SS, Bahadar H, Shah H, Ali S, Khan M, Khuda F, Ijaz K, Raziq M, Zakiullah. Screening of type 2 diabetes mellitus patients of Khyber Pakhtunkhwa for SLC30A8 (rs13266634) variant associated with disease susceptibility. Pakistan Biomedical Journal. 2024;7(3):1063. doi:10.54393/pbmj.v7i03.1063
- Ali M, Bahadar H, Shah H, Afridi S, Ali S, Ijaz K, Khuda F, Khan H, Raziq M, Zakiullah. Screening of type 2 diabetes patients of Khyber Pakhtunkhwa for CDKAL1 variant (rs10946398). Pakistan Biomedical Journal. 2024;7(3):1050. doi:10.54393/pbmj.v7i03.1050
- Hina Q, Zakiullah, Bahadar H, Shah H, Afridi MS, Awan SK, Ali M, Ijaz K, Siyar H, Begum A. Association of HLA class II alleles of DQB1 (DQB1*03:02, DQB1*06:02) and DRB1 (DRB1*04:01) with type-1 diabetes patients of Khyber Pakhtunkhwa, Pakistan. Molecular Medicine Communications. 2024;3(11):0561. doi:10.55627/mmc.004.0561

7. Selected Publications

- Ijaz K, Zakiullah, Shah H, Ali S, Raziq M, Bahadar H. Association of GRK5 variant rs10886471 with the therapeutic effect of repaglinide in patients of type 2 diabetes mellitus. Pakistan Journal of Pharmaceutical Sciences. 2024;37(2).
- Babaresh WM, et al. Pharmacogenomic insights into amlodipine response: the role of CACNA1D, CACNA1C, and TRIB3 variants in hypertensive patients. PLOS ONE. 2024.
- Jan A, et al. Decoding type 2 diabetes mellitus genetic risk variants in Pakistani Pashtun ethnic population using nascent whole exome sequencing and MassARRAY genotyping. PLOS ONE. 2023;18(1):e0281070.

8. Research Grants & Projects

Project Title	Funding Agency	Amount	Status
Effect of <i>GRK5</i> Variant (rs10886471) on the Therapeutic Effect of Repaglinide in T2DM Patients	HEREF (Higher Education Research Endowment Fund)	2.5 Million	Completed (MPhil project; PI: Dr. Zakiullah)

9. Student Supervision

- **Research Assistant Supervision (2022-2024):** Informal research-assistant supervision: mentored junior researchers at the Pharmacogenomics Laboratory, University of Peshawar (2022–2024), including guidance on manuscript editing, project design, results interpretation, statistical analysis, and molecular laboratory techniques

10. Teaching Experience

Undergraduate Courses

- Organic Chemistry
- Biochemistry
- Physiology
- Pharmacology
- Biopharmaceutics

Teaching Activities

- Delivering undergraduate lectures; contributing to curriculum development and student assessment (Lecturer, KMU, Jan 2026–present).
- Delivered lectures, administered/evaluated examinations, and supervised student assignments, quizzes, and presentations (Teaching Assistant, KMU, 2025).
- Conducted and supervised laboratory-based practical sessions.

11. Conferences, Workshops & Trainings

International Conferences

- 2nd International Basic Medical Sciences Conference "BMedCon'23 – A Spectrum of Discoveries," Institute of Basic Medical Sciences (BMS) / Institute of Pharmaceutical Sciences (IPS), Khyber Medical University, 20–23 November 2023 (attended).
- **Speaker**, 2nd International Conference on Medicinal Chemistry and Drug Discovery Against Cancer and Other Diseases (MCDDCD-2026), University of Swabi, Pakistan, 7–8 April 2026 — presented "Explainable Machine Learning Based VS Conventional Statistics Based Evaluation of Antihypertensive Response to Valsartan–Hydrochlorothiazide Therapy" (Zakiullah, Babareesh WM, Ijaz K).

National Conferences

- National Medical Research Conference, Khyber Girls Medical College, September 2025 (attended two pre-conference workshops — see below).

Workshops Attended

- "Scientific Writing and Publication: Turning Research into Reach" — pre-conference workshop, National Medical Research Conference, Khyber Girls Medical College, 10 September 2025 (6 CME hours).
- "Data Analysis and Visualisation in Python for Healthcare Researchers and Professionals" — pre-conference workshop, National Medical Research Conference, Khyber Girls Medical College, 11 September 2025 (6 CME hours).
- Pre-ASRB Workshop on "Biosafety, Biosecurity and Biorisk Management," Institute of Basic Medical Sciences (IBMS), Khyber Medical University, 26 January 2023.

Workshops Conducted

- Lead Organizer, Workshop on Computational Drug Designing, KMU Institute of Pharmaceutical Sciences (IPS) — recognised with a Certificate of Appreciation for leadership and contributions in planning, coordination, and execution (6 CME credit hours).
- Organizer, "Mastering 16S rRNA Microbial Diversity Data Analysis: A 3-Day Hybrid Hands-on Workshop using QIIME 2," Institute of Pharmaceutical Sciences (IPS), Khyber Medical University, 6, 10 & 11 June 2026 (CME credited).

12. Community Services / Outreach Activities

- Certificate of Participation, "Pharmacist as a Health Care Professional" — One-Day Seminar organized by the Pakistan Pharmacists Association, Khyber Pakhtunkhwa & Pakistan Pharmacists Federation, Khyber Pakhtunkhwa.

13. References

Available upon request.