

CURRICULUM VITAE

Khyber Medical University, Peshawar

1. Personal Information

Name: Aiman Shoaib

Designation: Teaching Assistant (currently pursuing PhD in Pharmacology)

Department: Institute of Pharmaceutical Sciences, Khyber Medical University, Peshawar, Pakistan

Email: aimanshoaib.ips@kmu.edu.pk

Phone: +92 347 924 5573

Languages: English, Urdu, Pashto

2. Academic Qualifications

Degree	Discipline / Thesis	Institution	Year
PhD	Pharmacology (Ongoing)	Khyber Medical University, Pakistan	In Progress
MPhil	Pharmacology — Cancer Pharmacology, Molecular Biology, Cell Biology, Medical Genetics, Biosafety & Biosecurity. Thesis: "Epigenetic Targeting in Oral Squamous Cell Carcinoma: Identification of DNMT1 Inhibitors and Comparative Evaluation with Cisplatin with Assessment of Demethylation-Based Therapeutic Approaches in Primary Cell Models." Advisor: Prof. Dr. Sami Siraj	Khyber Medical University, Pakistan	Feb 2022 – Oct 2024
Pharm-D (BS Hons – 5 Years)	Cancer Pharmacology, Pharmaceutics, Pharmacognosy, Pharmaceutical Chemistry, Clinical Pharmacy, Industrial Pharmacy, Microbiology, Physiology. Thesis: "Assessment of Severity and Quality of Life of Patients with Ischemic and Hemorrhagic Stroke." Advisor: Dr. Muhammad Ismail	University of Peshawar, Pakistan	Feb 2015 – Feb 2019

3. Professional Experience

Position	Organization	Duration
Teaching Assistant	Khyber Medical University, Peshawar, Pakistan	Jan 2025 – Present
Research Assistant	Institute of Basic Medical Sciences, Khyber Medical University	Oct 2022 – Dec 2024
Lecturer	Frontier Homeopathic Medical College, Peshawar, Pakistan	Feb 2020 – Aug 2022

4. Administrative Responsibilities

- Lead Organizer, Workshop on Computational Drug Designing, Khyber Medical University (KMU).
- Focal Person, Workshop on "Mastering 16S rRNA Microbial Diversity Data Analysis," Khyber Medical University (KMU).

- Managed cell culture laboratory and supervised research activities as Research Assistant, Institute of Basic Medical Sciences, KMU.
- Supervises student research and presentations as Teaching Assistant, KMU.

5. Areas of Specialization / Research Interests

- Cancer Epigenetics (DNA Methylation, DNMT1 Targeting).
- Computational Drug Discovery & Molecular Docking.
- Drug Repurposing in Cancer Therapeutics.
- Precision Medicine & Pharmacogenomics.
- Molecular Biology & Translational Cancer Research.

Research Skills & Techniques

- Cell culture (freezing, thawing, passaging) and primary cell line generation.
- Molecular biology: PCR (conventional & RT-PCR), DNA/RNA extraction, cDNA synthesis, gel electrophoresis, Western blot.
- Computational tools: Molecular docking (AutoDock Vina, PyRx), PyMOL, Chimera, Discovery Studio, pharmacophore modelling, LigandScout.
- Analytical techniques: HPLC, UV spectrophotometry, chromatography, microbiological and biochemical assays.
- Animal handling and experimental models.
- Statistical analysis and data interpretation: SPSS, GraphPad Prism.

6. Publications

- Drug Repurposing of Loratadine as a DNMT1 Inhibitor: Comparative Evaluation with Cisplatin in Patient-Derived Oral Squamous Cell Carcinoma Cell Lines. Precision Medicine Communications, 2024;4(2):125–137. DOI: 10.55627/pmc.004.001.0776
- Management of Dyslipidemia with Atorvastatin in Patients with Chronic Obstructive Pulmonary Disease. International Journal of Pharmacy Research and Technology, 2025;15(2). DOI: 10.48047/ijprt/15.02.525
- DNA Methylation Analysis of Mebendazole and Molecular Docking Studies in OSCC Cell Lines (In Progress).
- Sitagliptin-Induced DNA Methylation Studies in OSCC Cell Lines (In Progress).

7. Research Grants & Projects

None reported.

8. Student Supervision

None reported (supervises student research and presentations as part of Teaching Assistant duties).

9. Teaching Experience

- Delivers lectures in Pharmacology and related disciplines, Khyber Medical University.
- Designs and evaluates examinations and student assessments, Khyber Medical University.

- Delivered lectures and assessed student performance, Frontier Homeopathic Medical College.

10. Conferences, Workshops & Trainings

- 4th Northwest Multidisciplinary Annual Research Conference, 2026.
- Lead Organizer, Workshop on Computational Drug Designing, Khyber Medical University (KMU).
- Focal Person, Workshop on "Mastering 16S rRNA Microbial Diversity Data Analysis," Khyber Medical University (KMU).
- Participant, One-Month International Remote Internship Program in Advanced Bioinformatics.
- Participant, Workshop on "Data Analysis and Visualization in Python for Healthcare Researchers and Professionals."

11. Awards, Honors & Distinctions

None reported.

12. Professional Memberships

None reported.

13. References

1. Prof. Dr. Sami Siraj

PhD (China), HOD, Institute of Pharmaceutical Sciences, Khyber Medical University. Email: samisiraj.ibms@kmu.edu.pk

2. Prof. Dr. Walayat Shah

PhD (China), Professor of Physiology, Khyber Medical University. Email: walayats.ibms@kmu.edu.pk

3. Dr. Haji Bahadar

PhD (Iran), Associate Professor, Khyber Medical University. Email: bahadarph@gmail.com