

MUHAMMAD MOHSIN

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ACADEMIC PROFILE

Pharmacist and biomedical researcher with UK postgraduate training in Medical Biosciences, combining expertise in Clinical Pharmacy, Molecular Biology, Bioinformatics, and Computational Biology. Experienced in undergraduate teaching, research supervision, and translational biomedical research.

Strong focus on data-driven biomedical analysis, molecular mechanisms of disease, and computational approaches to biological data. Skilled in research mentoring, scientific writing, and interdisciplinary biomedical education.

EDUCATION

MSc Medical Bioscience – Glasgow Caledonian University, UK (2020–2022)

Dissertation: *Connexin-43 Signaling in Pulmonary Artery Fibroblast Proliferation*

Doctor of Pharmacy (PharmD) – University of Sargodha, Pakistan (2010–2015)

ACADEMIC & RESEARCH EXPERIENCE

Research Head / Undergraduate Research Supervisor

Nazar College of Pharmacy, Dakson Institute of Health Sciences (Affiliated with University of Peshawar) | 2025–Present

- Supervise undergraduate research in Pharmacy and Biomedical Sciences
- Mentor students in research methodology, biostatistics, and scientific writing
- Promote interdisciplinary research and academic collaboration

MSc Researcher

Glasgow Caledonian University, UK | 2020–2022

- Molecular biology research on pulmonary vascular remodeling
- Performed qRT-PCR, Western blot, ELISA, and mammalian cell culture
- Applied statistical and computational methods for data analysis

PROFESSIONAL EXPERIENCE

Medical Writer – Klarity HealthTech, UK (2022–2024)

- Developed biomedical and clinical content in cardiovascular and metabolic diseases
- Translated complex research into clinical and educational materials

Pharmacist (Hospital & Community Practice) – Pakistan (2018–Present)

- Clinical pharmacy practice, patient counseling, and medication management
- Prescription evaluation and drug information services

TECHNICAL & COMPUTATIONAL SKILLS

Programming & Data Analysis:

Python (Bioinformatics Data Analysis, Basic Scripting), R Programming, Statistical Analysis, Data Visualization

Bioinformatics Tools:

BLAST, UCSC Genome Browser, NCBI databases, protein analysis tools, sequence alignment

Molecular Biology Techniques:

qRT-PCR, Western Blot, ELISA, Cell Culture

Pharmaceutical Sciences:

Clinical Pharmacy, Pharmacokinetics, Biopharmaceutics

PUBLICATIONS

- [Mohsin M. *In Silico Analysis of PAM Gene Variants in Type 2 Diabetes Mellitus*. bioRxiv \(2025\)](#)
 - Mohsin M. *Connexin-43 Signaling in Pulmonary Artery Fibroblast Proliferation*. (Under review)
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RESEARCH INTERESTS

Molecular Medicine | Bioinformatics | Computational Biology | Translational Biomedical Research | Cardiovascular & Pulmonary Diseases | Biomarker Discovery | Antimicrobial Resistance | Precision Medicine | Clinical Pharmacy

TEACHING INTERESTS

Clinical Pharmacy | Pharmacology | Molecular Biology | Cell Biology | Human Physiology | Biopharmaceutics | Biomedical Sciences | Research Methodology | Biostatistics | Bioinformatics

ACADEMIC SERVICE

- Invited Reviewer – Rare Diseases Initiative, Switzerland (2025–Present)
 - Contributor to international biomedical research and rare disease projects
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LANGUAGES

English (Fluent) | Urdu (Native) | Saraiki (Native)

REFERENCES

Available upon request