

Cell No. +92-318-5833468

E-mail: vajihash008@gmail.com

House No.22 Street No.25, Korang Town Islamabad, Pakistan

WAJIHA SHAUKAT

Research Experience

MPhil Researcher – Cancer Molecular Biology

2023–2025

Department of Biotechnology, Fatima Jinnah Women University

- Collected and analyzed clinicopathological data from breast cancer patients to correlate with gene expression and metabolic status.
- Investigated drug effects (Tamoxifen and metformin) on genes (PD-1 and PDL-1) expression in breast cancer (diabetic and non-diabetic) patients
- Techniques: RT-PCR based gene expression analysis, nucleic acid extraction, experimental design
- Manuscript submitted (under review)

Environmental Research Collaborator

2024–2025

Department of Environmental Sciences, Fatima Jinnah Women University

- Studied farm-level climate change adaptation strategies
- Assisted in data collection, statistical analysis, and manuscript preparation (under review)

Education

M.Phil. Biotechnology

2023-2025

Fatima Jinnah Women University, Pakistan

CGPA: 3.77/4.00 (Silver Medallist) **Thesis:** Investigating the role of metabolic status on immune checkpoints modulation in breast cancer: a study on differential effects of tamoxifen and metformin in diabetic and non-diabetic patients.

Courses: Microbial and Molecular Genetics, Recombinant DNA Technology, Techniques in Molecular Biology, Plant Biotechnology, Advances in Cell Molecular Biology, Recent Trends in Bioethics and Biosafety, Environmental and Industrial Biotechnology, and Enzyme Biotechnology.

Doctor of Pharmacy

2010-2015

Hamdard University Karachi, Pakistan

CGPA: 3.46/4.00 (four merit scholarships)

FSc (Pre-Medical)

2008-2010

F.G Post Graduate College for Women, Pakistan

A grade **Main subjects:** Biology, physics and Chemistry

Matriculation

Sir Syed Public School, Pakistan

2008

A+ grade **Main subjects:** Biology, Physics. Mathematics and Chemistry

Professional Experience

Retail Pharmacist

2019-2023

Careline + Pharmacy

Dispensed medications, ensured pharmaceutical accuracy and provided patient counselling and clinical support

Online Tutor

2019-2024

Road to Future

Subjects: Biology and Chemistry

Teaching Assistant / Laboratory Supervisor (Microbiology Lab) 2016-2018
Hamdard University Karachi

Supervised undergraduate laboratory sessions in pharmaceutical sciences
Organized and supported an undergraduate research conference, assisting with student presentations and project coordination.

Developed laboratory manuals for five pharmaceutical courses and contributed to viva examination guides.

Trained laboratory assistants in the use of instruments and experimental procedures.

Contributed to activities of the Herbal and Cosmetic Laboratory.

Assisted in the development and presentation of approximately 50 herbal formulations for various health conditions.

Conducted literature reviews on medicinal plants, phytochemicals, and their therapeutic applications.

Internship 2015

Rawalpindi Institute of Cardiology, Pakistan

Clinical pharmacist, maintained medication records and ADR reporting

Certifications

GenBank Submission and Phylogenetic Tree Construction

Google Data Analytics Professional Certificate (enrolled)

Awards

2nd Position in M.Phil. Biotechnology 2023-2025

Best Teaching Assistant (Awarded by Hamdard University). 2018

Organizer (Undergraduate Research Conference Hamdard University) 2018

4 Merit Scholarships (Pharm-D) 2010-2015

Skills

Molecular biology techniques, PCR, primer designing, phylogenetic tree construction and gene expression analysis

Microbial culturing, plating methods, and aseptic laboratory techniques

Analytical, physical, pharmaceutical chemistry, QC/QA, clinical, physiology, industrial pharmacy laboratory methods and instrumentation

Experimental design, data interpretation, and scientific writing

Data analysis and visualization [Microsoft Office, Canva, IBM SPSS Statistics, GraphPad Prism, Image J software and preparation of publication-quality figures].

Languages: English (Fluent), Urdu (Native)

My Research Status

Investigating the role of metabolic status on immune checkpoints modulation in breast cancer: a study on differential effects of tamoxifen and metformin in diabetic and non-diabetic patients
Pakistan journal of pharmaceutical sciences (with the editor)

Assessment of climate change impacts and farm-level adaptation strategies in Potohar region of Pakistan

Weather, Climate, and Society (with the editor)

Referees

Dr. Nosheen Masood, Head of the department, Assistant Professor, Department of Biotechnology, Fatima Jinnah Women University, The Mall, Rawalpindi, Pakistan. dr.nosheen@fjwu.edu.pk

Dr. Naila Safdar, Assistant Professor, Department of Biotechnology, Fatima Jinnah Women University, The Mall, Rawalpindi, Pakistan. nailahussain@fjwu.edu.pk