

Aaiza Asif

Phone: ☎ (+92) 3331581185 (Mobile) **Email address:** aaizaasif44@gmail.com 📍

Address: Royal Girls Hostel, Street 9, Lane 10, Hostel City, , 44000, Islamabad, Pakistan
(Home)

WORK EXPERIENCE

Shifa College of Medicine - Pakistan, Islamabad

Research Intern

[01/04/2026 - 31/05/2026]

Gained practical experience in biochemical techniques, laboratory instrumentation, and data recording during a biochemistry lab internship, with a focus on precision, safety, and analytical accuracy.

Cancer Genetics and Epigenetics Lab, CUI - Islamabad

Research Student

[01/07/2023 - 15/01/2024]

-Conducted laboratory experiments related to the expression analysis of CEP-152 gene in Breast cancer in Pakistani Children

Performed RNA extraction, cDNA synthesis, and quantitative real-time PCR (qRT-PCR).

Processed and analyzed biological samples following laboratory protocols.

Assisted in data analysis, interpretation, and documentation of research findings.

Maintained laboratory records and ensured compliance with standard laboratory practices.

Developed practical skills in molecular biology techniques, experimental design, and scientific reporting

EDUCATION & TRAINING

Masters in Molecular Genetics

COMSATS University Islamabad [01/09/2024 - Current]

City: Islamabad | **Country:** Pakistan

Final grade: 4.0 | **Level in EQF:** 7 | **Thesis:** Expression Analysis of miR-548c-3p in Pakistani Children with ASD

Courses

Molecular Biology, Molecular Genetics, Neurobiology, Cancer Genetics, Multiomics, Clinical Biochemistry, Recombinant DNA technology, Gene Expression and Regulation

Bachelors in Biosciences

COMSATS University Islamabad [01/02/2020 - 15/05/2024]

City: Islamabad | **Country:** Pakistan

Final grade: A+ | **Level in EQF:** 6 | **Thesis:** Expression dysregulation of CEP152 gene in Breast Cancer in Pakistan

Courses

General Chemistry, Genomics and Proteomics, Genetics, Bioethics, Calculus, Statistics, Microbiology, Plant Biology, Zoology, International Relations, Business, Molecular Biology, Environmental Biology, Evolution, Biotechnology.

LANGUAGE SKILLS

Mother tongue(s): Urdu

English

LISTENING: C2 **READING:** C2 **WRITING:** C2
SPOKEN PRODUCTION: C2
SPOKEN INTERACTION: C1

Italian

LISTENING: A1 **READING:** A1 **WRITING:** A1
SPOKEN PRODUCTION: A1
SPOKEN INTERACTION: A1

SKILLS

Microsoft Office | Microsoft Word | Team-work oriented | Good listener and communicator | Social Media | Responsibility | Critical thinking | Decision-making | Written and Verbal skills | Flexibility

Scientific Skills

Polymerase Chain Reaction (PCR), RT-PCR, qPCR | DNA/RNA extraction and purification | Gel electrophoresis (agarose, PAGE) | Documentation (lab notebooks, SOPs) | ELISA (Enzyme-Linked Immunosorbent Assay) | Basic scripting (R) | Lab safety and waste management | Animal handling | Primer design | Statistical Analysis (GRAPHPAD, SPSS, EXCEL) | Cell Culture (cell freezing, cell thawing, cell passage and cell counting) | Western Blot | CRISPR | Flow cytometry | Genome/protein databases (NCBI, UniProt)

CERTIFICATIONS

[COMSATS University Islamabad, 21/12/2023]

Certificate of Appreciation Awarded for excellence in research, creativity, and presentation of the Bachelor's Final Year Project at the Career Expo.

[British Council, Pakistan, 31/05/2023]

Certificate of Recognition

[COMSATS University Islamabad, 01/11/2024]

Certificate of Excellence Awarded for exemplary academic performance leading to the achievement of a merit-based scholarship at COMSATS University.

CONFERENCES & SEMINARS

[09/04/2026 - 09/04/2026] Islamabad

Challenges and Solutions in Genomic Practices in LMICs Attended a conference on “Challenges and Solutions in Genomic Practices in LMICs,” gaining insights into genomic data analysis, ethical considerations, and implementation challenges in low- and middle-income countries

HONOURS AND AWARDS

[09/01/2026] Higher Education Commission Pakistan

Academic Excellence Laptop Award

[01/11/2024] COMSATS University Islamabad

Merit-Based Master's Scholarship

[31/05/2023] British Council

British Council Bachelor's Scholarship

HOBBIES AND INTERESTS

Sports

Narrative storytelling and Book Reading

Language learning (Italian)

Exploration of emerging AI tools and technologies

VOLUNTEERING

[01/03/2023 - 31/05/2023] Islamabad

Basera Trust

PUBLICATIONS

[2026]

Remodeling of Oncogene Related Molecular Networks Following Bariatric Surgery; A Multiomics Study (Under Review)

Participated in a multiomics research project investigating molecular network remodeling after bariatric surgery. Assisted with transcriptomic data analysis, functional pathway interpretation, and integration of biological datasets to identify alterations in oncogenic signaling.