

Bushra Bibi

M.phil Biotechnology

Biology enthusiast and keen researcher, always ready to accept new challenges and willing to work for exploring the novelty of biotechnology for serving humanity.

LinkedIn Profile:

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Skills & Competencies

- Wet lab Skills including preparing culture media, DNA/RNA extraction, Gel Purification and Antimicrobial assays.
- Primer designing, PCR optimization
- Gel electrophoresis, Sanger sequencing data analysis.
- Strong Insilico Skills including Molecular docking, Secondary structure formation, Ligplot analysis and Phylogenetic Analysis
- Critical Thinking, and Flexible behaviour



Internships

4/2020- 9/2021

- Research and Writing Internee at Humanitarian Services
- Worked as biology internee for the conservation of biodiversity by writing blogs and designing awareness posters at Conservation Optimism Organization Pakistan



Employment

- Klarity** (Wellness and Fitness Services)

Oct- Dec/2022 Health Writer



Final Year Project and Publications

Medicinal Plants and Cure of cancer

- In BS, Successfully completed the research work with positive results. Published a research article from my thesis in the NUMS journal of “*Life and Science*”. The **title of thesis and research article** was:

“Identification of Anticancer Potential of Phytoconstituents of Cuminum cyminum Effective against Hepatocellular. Carcinoma Using Computational Approaches”

DOI: <https://doi.org/10.37185/LnS.1.1.302>

Molecular Identification of bat species

- Successfully completed the research work in my M.Phil. The **title** of my **thesis** was:
“Non-Invasive Molecular Identification of Bats Species Using Mitochondrial DNA”.
- During M.phil published a **review article** entitled:
“Clinical trials and recent progress in HIV vaccine development”. It was published in the journal of *Functional & Integrative Genomics* (Publisher: Springer Nature Link, Impact Factor 3.9).

DOI: [10.1007/s10142-024-01425-9](https://doi.org/10.1007/s10142-024-01425-9)



Education

M.phil in Biotechnology

Quaid-i-Azam University, Islamabad.

Feb-2023- Jan-2025

CGPA: 3.85

BS Honors in Biotechnology

Capital University of Science and Technology.

2018- 2022

CGPA: 3.78

F.Sc-pre medical

Post Graduate Government College.

08/2015- 2017

766/1100

Matriculation

Govt. Girls High School Kallar Syedan.

2014 - 2015

875/1100



Achievements and Activities

- Organized conferences and workshops on the **topic** of:
 - **ANSO-PAS Conference** on “Understanding and mitigating the threat of emerging pathogens: Opportunities and challenges” (December 21 – 22, 2024)
 - Workshop on **Biological Safety and Risk Management** (January 10, 2025).
Department of Biotechnology, Quaid-i-Azam University Islamabad.
- Got 7 Dean Honor awards for securing more than 3.5 GPA. One Chancellor of Honor for securing 4 GPA. Bronze Medalist in BS.
- Presented Final Year Project of Bachelors in 9th International Conference on Biological & Computational Sciences (C-BICS 2021) at CUST, Islamabad.
- Poster Presentation on the **topic** of “Bats as Reservoir of Pathogens and Role of their immune system in increasing Zoonotic Potential of Bats” in ANSO-PAS Conference on “Understanding and mitigating the threat of emerging pathogens: Opportunities and challenges” (December 21 – 22, 2024).