

DANIYAL ZAREEN

Microbiologist and Immunologist

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📍 Rawalpindi, Pakistan

ABOUT ME

Dedicated Microbiologist with hands-on experience in bacteriology, and antimicrobial resistance. Skilled in applying laboratory techniques such as PCR, gel electrophoresis, DNA extraction, and bacterial culturing to investigate microbial behavior and develop effective solutions. Passionate about advancing microbiological research and applying scientific knowledge to improve healthcare and public health outcomes.

EDUCATION

National University of Medical Sciences, Islamabad | 2022-2024

MS Microbiology and Immunology

CGPA: 3.19

Capital University of Science and Technology, Islamabad | 2018-2022

BS Microbiology

Fsc Pre-Medical | 2015-2017

Islamabad Model For Boys H-9, Islamabad

WORKING EXPERIENCE

During my research, I gained hands-on experience in the isolation, culturing, and biochemical identification of bacterial strains from industrial wastewater. I developed expertise in antimicrobial susceptibility testing (AST) and molecular characterization techniques, including DNA extraction, PCR amplification, and sequencing for resistance gene analysis. This work enhanced my skills in both microbiological and molecular methods, while also deepening my understanding of environmental reservoirs of antibiotic resistance.

SKILLS

KEY LABORATORY SKILLS

- Polymerase Chain Reaction (PCR)
- Gel Electrophoresis
- Microscopy Techniques (Light, Fluorescence)
- Aseptic Technique and Sterile Handling
- Data Recording, Analysis, and Interpretation
- DNA Extraction and Purification
- Bacterial Culturing and Isolation
- Antimicrobial Susceptibility Testing
- Biochemical tests for differentiation and identification of bacteria

BIOINFORMATICS SKILLS

- Primer Designing (**Primer3, NCBI Primer-BLAST**)
- CLUSTALW (**Multiple Sequence Alignment**)
- R Studio (**Basic graph and charts**)
- MEGA 11 (**Phylogenetic Analysis**)
- Molecular Docking (**UCSF Chimera**)
- BLAST (**NCBI**)

COMPUTER RELATED SKILLS

- Microsoft word (**Data arrangement, and proper formatting**)
- Microsoft Excel (**Graphs, and data sheets**)
- Software **Installation** and **troubleshooting**
- Adobe premier pro Video editing (**more than 4 years of experience**)
(**motion graphics, long form and short form video creation, template editing**)