

# Babar ALi

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## Profile

Recent MS Bioinformatics graduate with a strong foundation in computational biology, protein structure analysis, and R programming. Proven research aptitude demonstrated through two scientific publications and successful acquisition of Ignite funding for undergraduate research. Adept at simplifying complex bioinformatics concepts, making me well-suited for roles in academia. Passionate about teaching and committed to pursuing a PhD in Bioinformatics to further contribute to research and education in the field.

## Education

02/2014 – 07/2016	<b>SSC (Science)</b> <i>Bismillah H.S.S Sadiq Abad</i>
09/2016 – 09/2018	<b>HSSC (Pre-Medical)</b> <i>Punjab College Manthar Road Sadiq Abad</i>
10/2018 – 06/2022	<b>BS Bioinformatics</b> <i>Khwaja Fareed University of Engineering and Information Technology Rahim Yar Khan</i>
02/2023 – 01/2025	<b>MS Bioinformatics</b> <i>COMSATS University Islamabad</i>

## Professional Experience

01/2024 – 01/2025	<b>Research Assistant</b> <i>COMSATS</i> <ul style="list-style-type: none"><li>• <b>Assistant in Workshops:</b> Provided support in conducting workshops on Linux, Data Analysis, and R Studio. Assisted participants with hands-on learning, troubleshooting, and mastering essential tools and techniques.</li><li>• <b>Project Support:</b> Completed a variety of projects for students and colleagues, leveraging expertise in data analysis, programming, and visual representation. Ensured the delivery of high-quality, academically relevant outputs.</li><li>• <b>Design and Visualization:</b> Created flowcharts, diagrams, and other visual aids to simplify complex concepts, enhancing the understanding of key topics in data science and computational tools.</li></ul>
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## Skills

Genome Annotation & Comparative Genomics	Transcriptomics & RNA-seq Data Analysis
Protein Structure Prediction & Analysis	R Programming
Galaxy & TBtools	Problem Solving & Time Management

## Languages

- English
- Urdu
- Punjabi

## Certificates

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**Webinar of Biotechnology for Industry & Business**  
Participant

**Two Days Workshop on Structural Bioinformatics**  
Organizer

**Primer Designing for PCR by SPISD**  
Participant

**International webinar on "TraDIS-Xpress: A functional genomic tool to understand bacterial genome"**  
Organizer

**5th Annual Sports gala activities 2022 in KFUEIT**  
Participant

## Projects

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09/2021 – 01/2022      **Molecular Evolutionary Genetics Analysis of Pseudomonas Putida Strain QUA90 16S Ribosomal RNA Gene Partial Sequence**


02/2022 – 06/2022      **Computer-Aided Drug Designing against SARS-CoV-2, Human ACE-2 receptor by using Structural Bioinformatics approaches**

01/2024 – 01/2025      **Rice-Barley Comparative Genomics to Expedite Gene Discovery in Barley**

## Publications

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09/02/2023      **In silico identification of cassava genome-encoded MicroRNAs with predicted potential for targeting the ICMV-Kerala begomoviral pathogen of cassava**  
*MDPI (Viruses)*

27/01/2025      **In Silico Identification of Banana High-Confidence MicroRNA Binding Sites Targeting Banana Streak GF Virus**   
*MDPI (Applied Microbiology)*

## References

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**Dr. Muhammad Sajjad**, Tenured Associate Professor Bio Science, COMSATS Islamabad Campus  
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