

Babar Ali

 Babarali.6078@gmail.com

 Rahim Yar Khan, Pakistan

 03176862033

 0000-0001-6671-6931

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 **SSC (Science)**
Bismillah H.S.S Sadiq Abad

09/2016 – 09/2018 **HSSC (Pre-Medical)**
Punjab College Manthar Road Sadiq Abad

10/2018 – 06/2022 **BS Bioinformatics**
Khwaja Fareed University of Engineering and Information Technology Rahim Yar Khan

02/2023 – 01/2025 **MS Bioinformatics**
COMSATS University Islamabad

Professional Experience

01/2024 – 01/2025 **Research Assistant**
COMSATS

- Assistant in Workshops:** 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.
- Project Support:** 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.
- Design and Visualization:** Created flowcharts, diagrams, and other visual aids to simplify complex concepts, enhancing the understanding of key topics in data science and computational tools.

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

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

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

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

Dr. Muhammad Sajjad, Tenured Associate Professor Bio Science, COMSATS Islamabad Campus
muhammad.sajjad@comsats.edu.pk, 00925190496154