


ZANOBIA AFZAL

BIOTECHNOLOGIST

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Objective

Motivated and detail-oriented Biotechnologist with a strong foundation in molecular biology, genetic analysis, and laboratory techniques. Committed to advancing scientific knowledge through innovative research and interdisciplinary collaboration. Brings a unique blend of scientific knowledge and creative design skills, with a strong interest in AI-driven microbiology and bio-based innovations.

Core Competencies

Technical Analysis | Creative Analysis | Laboratory & Technical Proficiency | Analytical and Critical Thinking | Visual Communication | Proficiency in design tool in Canva and Photoshop.

Education

- **Bachelor in Biotechnology**
- Jinnah University for Women | (2021 - 2024)
- **Higher Secondary Certificate**
- **(HSSC)** Board of Secondary Education in Karachi | (2018 -2020)
- **High School**
- PGS School | (2005 - 2016)

Employee Of HPC CONSULTANCY

1. Graphic Design & Video Animation

- Design visually appealing content including social media posts, banners, flyers, and promotional videos.
- Create engaging animations to support marketing campaigns and educational materials. Develop mockups and branding elements for client projects.

2. Tutor – Educational Consultancy

- Teach students from classes 1–12 in Biology and Pakistan Studies.
- Prepare customized lesson plans and simplify complex topics for better student understanding.

Laboratory Training Program

Ziauddin Hospital : Department of Molecular Genetic gain 1 month hand on experience in DNA extraction, PCR, Gel Electrophoresis, CMV, HBV, HCV, BCRABL1, HLA typing, Immunoblotting, IGRA, COVID-19, CDC, NGS (Next-generation sequencing), Sample receiving, Reporting .

Alkhidmat diagnostic center

Alkhidmat Lab : During my internship at Alkhidmat, I gained valuable experience in multiple areas. Our first project was research-based, which we presented to all participants. In the following days, I learned and discussed fire alarm precautions and safety guidelines. I also took part in a quality control visit and demonstrated various laboratory procedures.

Skills

- **DNA Extraction**

Skilled in isolating high-quality genomic DNA from various biological samples using standard protocols.

- **Gel Electrophoresis**

Proficient in running and analyzing agarose gel electrophoresis to separate and visualize nucleic acids.

- **PCR (Polymerase Chain Reaction)**

Experienced in setting up and optimizing PCR reactions for DNA amplification and analysis.

- **Understanding of Bioinformatics**

knowledge of statistical and technical tools used for analyzing biological data (e.g. UNIPROT KB, NCBI, BLAST).

- **Cell Culture & Microscopy**

Experience in culturing bacterial or mammalian cells and observing them under microscopes.

- **Critical Thinking & Problem-Solving**

Ability to troubleshoot experiments and find solutions to technical or scientific issues.

- **Knowledge of Good Laboratory Practices (GLP)**

Understanding of lab safety, contamination control, and standard operating procedures (SOPs).

- **Team Collaboration & Communication**

Working effectively in multidisciplinary teams and clearly communicating scientific ideas or results.

- **PowerPoint Presentation**

Proficient in creating visually engaging PowerPoint presentations using AI tools and custom slide design. Skilled in transforming complex topics into clear, attractive slides for impactful presentations.

Certifications

(Alkhidmat diagnostic center) "lab work, Task, Project, social work" 1 July

(Vita Nova International Alliances Sciences) "Biotechnology and Bioinformatics" 10 July

(HPC Consultancy) "Graphic designing" 1 June 2025.

(Ziauddin Hospital) "Molecular Genetic" 4 April 2025.

(IBRAS) 5th International conferences on "Biological Research and Applied sciences" 29 Jan 2025.

(Science and Technology online) Participated in a three days online training on "The Role of AI in Microbiology career" 4 - 6 April 2024.

(weber code) For attending webinar on the topic of "Earn with Chat GPT and AI" 6 June 2024.

(Jinnah University for Women) For attending webinar on "Hereditary Breast Cancer and Genetic Testing of BRCA1 and BRCA2 Gene Mutations" 12 June 2024.

(Learning with Earning PVT. LTD) 1.5 Month Digital skills Training Program "Graphic Designing" 24 Sep 2024.

(Jinnah University for Women) For participated in science and solution "Bio-based Product Expo" 11 Nov 2023.