
ABOUT ME

A motivated biochemist with an excelled work experience of three years, keen to flourish in both research and academia at a well-esteemed organization.

PUBLICATIONS

- Khan, M., **Naeem, M.**, Chaudary, S. A., & Ahmed, A. (2023). Cancer Stem Cells and Treatment of Cancer: An Update and Future Perspectives. *Current Stem Cell Research & Therapy*.
- Sijjeel, F., Khalid, A., Khan, M.Y., Khurshid, R., Habiba, U.E., Majid, H., **Naeem, M.**, Nawaz, B., Abbas, S. and Malik, N.U.A., 2021. Prevalence of ABO and Rh Blood Groups and Their Association with Transfusion-Transmissible Infections (TTIs) among Blood Donors in Islamabad, Pakistan. *BioScientific Review*, 3(4), pp.13-26.
- Linn, Q., Munir, A., Masood, S., Hussain, S., **Naeem, M.** and Fazal, S., **2021**. Gene expression profiling utilizing extremely sensitive CDNA arrays and enrichment-based network study of major bone cancer genes. *Journal of research in medical sciences: the official journal of Isfahan University of Medical Sciences*, 26.

PROJECTS

- Interplay of Gut Microbiota in the pathogenesis of Obesity and Type 2 Diabetes Mellitus pathogenesis: A Multi-Ethnic Perspective
 - Prevalence of Transfusion Transmissible Infections in Blood Donors.
 - A comparative study of Recovered and Deceased cases of COVID-19 in Rawalpindi.
- Reviewed Health Benefits of Tea Consumption

WORK EXPERIENCE

Paragon Overseas Education

(Jan 2025-Present)

Student Counsellor

- Helping students in achieving higher education.

National University of Science and Technology, Islamabad, Pakistan

Project Research Assistant at Immunotheranostic Lab

(Feb 2024-July 2024)

- Responsible for administrative responsibilities of the project
- Assisting the Principal Investigator in Teaching and Lab courses.
- Conducting experiments relevant to the project.

Capital University of Science and Technology, Islamabad, Pakistan

Associate Lecturer, Department of Bioinformatics & Biosciences

(Sep 2022 – July 2023)

- Conduct Biochemistry, Immunology, and Bioinformatics labs.
- Active involvement in multiple administrative responsibilities.
- Conducts workshops and seminars for professional and social grooming students.
- Involved in multiple research activities and counseling of students.

CITI Lab, Rawalpindi, Pakistan

Research Officer

(Nov 2021 – May 2022)

- Involved in research projects related to hepatitis B, C, and COVID-19.
- Studied lab reports of patients under critical condition to assist diagnosis and prognosis of diseases.

Pakistan Institute of Medical Sciences (PIMS), Islamabad, Pakistan*Research Intern***(April 2021 – October 2021)**

- Admitted donors and assessed their health to determine their eligibility for blood donation.
- Performed activities necessary for successful blood donation and transfusion to ensure that blood is healthy.
- Collected and analyzed data for research work and scientific write-up.

SKILLS:**a) Technical Skills**

- DNA Extraction
- Pigment Extraction
- Biomolecules Extraction
- Agarose Gel Electrophoresis (AGE)
- Polymerase Chain Reaction
- Quantitative Polymerase Chain Reaction
- Biochemical Assays
- Buffer and Stocks preparation

b) Bioinformatics & Soft Skills

- NCBI
- Cbio-Portal
- BLAST
- Primer Making and Optimisation
- Mega 6 Portal
- iMutant 2.0
- MS Office
- Biological Data Analysis (Excel)

EDUCATION**COMSATS University, Islamabad, Pakistan**
2021)**(Feb 2019 – Feb*****Masters in Biochemistry and Molecular Biology.*****(3.34)**

During the Masters; I was more inclined towards subjects such as Advances in Biochemistry, Histology, Neuroscience, Advances in Molecular Biology, and Gene Regulation and Expression. My master's project was to analyze the Length of Telomeres in Colorectal Cancer patients of the Pakistani Population.

PMAS-Arid Agriculture University, Rawalpindi, Pakistan**(Sep 2014 – Sep 2018)*****Bachelors in Biochemistry.*****(3.24)**

During my degree, the subjects that intrigued me most of my interest were Genetics, Molecular Biology, Nutritional Biochemistry, and Report Writing and Seminars. During my bachelor's, I collaborated on a paper called Prevalence of ABO and Rh Blood Groups and Their Association with Transfusion-Transmissible Infections (TTIs) among Blood Donors in Islamabad, Pakistan.

CERTIFICATIONS AND AWARDS

- Effective participation in online training of Toyota 5S Methodology **July 2021**
- Virtual participation in COMSTECH webinar South Asia's Health Care Challenges **June 2021**
- Dyslipidemia; Navigating Horizons from Prevention to Treatment **June 2021**
- Virtual Drug Discovery Symposium **August 2020**
- Clinical Research: An All-Inclusive Webinar Series **July 2020**
- Certificate of Participation for Hands-on Training on Next Generation Sequencing, NUST, EME College Islamabad. **July 2019**
- Certificate of Participation in Seminar on Blood Establishment Information Management System at MCH, PIMS **July 2021**
- Organiser at COMSATS Project and Career Expo **June 2019**

- Recipient of Laptop by Prime Minister Laptop Scheme for being a high achiever and good class participation during Bachelors. **January 2019**
- Hands-on Training on Cryopreservation and use of Liquid Nitrogen **April 2018**
- Selected as The Best Topic Presenter by Dr. Tayabba Zainab for presenting a seminar on the Importance of watching scientific TV series among our generation. **April 2017**
- Selected as The Best Poster Presenter by Dr. Pakeeza Arzoo for presenting a poster to raise awareness against Thalassemia. **March 2016**
- Awardee of Organizer at 10th International Conference on Biological and Computational Sciences C-BICS-2022

MEMBERSHIPS

- BIOME Society
- National Academy of Young Scientists (NAYS)
- Aridian Literary Society (ALS)
- Aridian Proctorial Board
- American Society of Microbiology (ASM)
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SCORES

– **IELTS:** 6.5 (Overall)

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| • Listening | 6.5 | • Reading | 6.0 |
| • Speaking | 7.0 | • Writing | 6.0 |

REFERENCES

Hassaan Mehboob Awan, Ph.D.

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Assistant Professor, PMAS-Arid Agriculture University, Rawalpindi tayyaba.zainab@uair.edu.pk

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Dean at Barani Institute of Management Sciences azrakhanum@uair.edu.pk

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