

# Aghna Maryam

**Nationality:**

**Email address:**

**Date of birth:**

**WhatsApp Messenger:**

**Gender:**

**LinkedIn:**

**Address:**

## ABOUT ME

Dedicated biochemist, Passion of enhancing global human health by contributing in molecular research, disease, prevention and diagnostics improvement. Being an adaptable professional with an ability to work under pressure while maintaining attention to details and developing opportunities that further establish organization goals.

## EDUCATION AND TRAINING

### **M.Phil Biochemistry & Molecular Biology**

*Quaid-i-Azam University, Islamabad* [2019-2021]

**Field(s of study):** Biochemistry & Molecular Biology

**Final grade:** CGPA: 4.00/4.00, Percentage 85.2%.

**Thesis:** CYP1B1 Polymorphism (G355T, C4326G) and its Association with HPV infection in Pakistani Head and Neck Cancer Patients

### **BS (HONS.) Biochemistry**

*The Islamia University of Bahawalpur* [ 2015 – 2019]

**Field(s of study):** Biochemistry

**Final grade:** CGPA: 3.96/4.00, Percentage 88.4%.

**Award:** Gold Medalist

## WORK EXPERIENCE

### **Internee**

*Combined Military Hospital, Bahawalpur, Pakistan* [07/2019 – 09/2019]

Worked in the Department of Microbiology, Pathology, Biochemistry, Blood bank, and Hematology.

### **Internee**

*NIGAB, NARC, Islamabad* [07/2018 – 08/2018]

Worked on DNA extraction, DNA Quantification, PCR, and ELISA from plant tissues.

### **COO, Multiomics (SMC-Private Limited)**

*A registered startup working as social enterprise on United Nation SDGs and selected among top social enterprises in a boot camp for emerging entrepreneurs by United Nations Development Program (UNDP), Jazz & Kamyab Jawan Program.*

### **Vice Chairman, MADAD Welfare Movement**

*Charitable project for the poor and deserving people of Pakistan.*

### **Course Instructor, Research Writing Internship**

*Multiomics (SMC-Private)Limited.*

### **Course Instructor, English Language Learning**

*Multiomics (SMC-Private)Limited.*

## LABORATORY SKILLS

- DNA/RNA Isolation, DNA Quantification, PCR, Biochemical tests, RFLP, ELISA

## PUBLICATIONS

Usman, M., Hameed, Y., Ahmad, M., Iqbal, M. J., **Maryam, A.**, Mazhar, A., . . . Ashraf, A. (2022). SHMT2 is Associated with Tumor Purity, CD8+ T Immune Cells Infiltration, and a Novel Therapeutic Target in Four Different Human Cancers. *Current Molecular Medicine*.

Wali, S., Zahra, M., Okla, M. K., Wahidah, H. A., Tauseef, I., Haleem, K. S., Farid, A., **Maryam, A.**, . . . Shakira, G. (2022). Brassica oleracea L. (Acephala Group) based zinc oxide nanoparticles and their efficacy as antibacterial agent. *Brazilian journal of biology = Revista brasleira de biologia*, 84, e259351.

## RESEARCH WORK

**CYP1B1 Polymorphism (G355T, C4326G) and its Association with HPV infection in Pakistani Head and Neck Cancer Patients (Thesis, M.Phil)**

*Cancer genetics lab, QAU, Islamabad (2020-2021)*

**Quantification of Bt-Toxin in Bt-cotton**

*NIGAB, NARC, Islamabad (2018)*

## ACHIEVEMENTS

**Gold Medalist** in BS (Hons) Biochemistry by The Islamia University of Bahawalpur.

**Award Winning Young Entrepreneur** in Future Leader Conference by Volunteer Force Pakistan

## PERSONAL SKILLS

Project management, Strong decision maker, Complex problem solver, Creative, Innovative, and Self-Focused.

## CERTIFICATES

- Organizer of Ist One Day International Science Conference on Genomics of Beneficial microbes, NIGAB, NARC
- Participation in Reference Management Software Webinar Organized by The Islamia University of Bahawalpur
- Participation in International Webinar on Molecular Pathways of Cathepsin B in Aging and Alzheimer Disease by GCU, Lahore

## LANGUAGE SKILLS

English, Urdu, Punjabi

## DIGITAL SKILLS

1. **Microsoft Office** (Microsoft Word / Microsoft PowerPoint / Microsoft Excel)
2. **Bioinformatics & Statistical Analysis Tools** (Basic bioinformatics, SPSS, MedCalc, GraphPad)
3. **Bibliography Tools** (Endnote / Mendeley)
4. **Advanced scientific databases search** (ResearchGate / PubMed / Web of Science / Google Scholar / Scopus)
5. **Google Suite** (Google Forms / GOOGLE DRIVE / GMAIL / Google Sheets)

## REFREES

**Dr. Aneesa Sultan**

*Associate Professor, Department Of Biochemistry, Quaid-i-Azam University, Islamabad*

**Dr. Muhammad Iqbal**

*Director, Institute of Biochemistry, Biotechnology & Bioinformatics, The Islamia University of Bahawalpur*

*iqbal.khawaja@iub.edu.pk*

**Dr. Shakira Ghazanfar**

*Senior Scientific Officer, PARC NARC, Islamabad*