

# Muhammad Junaid Iqbal

## Education

[ 2020 – 2022 ] **MS (Master of Science) Biochemistry & Molecular Biology**

**COMSATS University Islamabad, Islamabad, Pakistan**

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

**Final grade:** CGPA: 3.88/4.00, Percentage 87.6%, Italian Grade System: 107/110

**Weighted Average:** 88.10

**Thesis Topic:** Expression Deregulation of miR-3658 in Head and Neck Cancer

**Thesis Abstract:** Head and neck cancer (HNC) is a broad and diverse category of cancers that accounts for 8% to 10% of all carcinomas worldwide. It is common in several regions of the world with over 650,000 cases and 330,000 deaths annually with the highest prevalence rate in South-East Asia, followed by Europe, North America, and Australasia. The overall survival from HNC is poor due to late diagnosis. The aim of the study was to check the expression level of miRNA-3658 in HNC as compared to healthy individuals in the Pakistani population. Expression analysis of hsa-miR-3658 was carried out using real-time PCR. Our results showed significant down regulation of hsa-miR-3658 ( $p = 0.0029$ ) in HNC tissues as compared to control tissue samples. Accumulative evidence has demonstrated that miRNA-3658 is closely involved in tumorigenesis of HNC due to its tumor suppressor behavior. Further analysis showed that abnormal expression of this miRNA is strongly associated with the aggressiveness of HNC and can be used as a prognostic marker for head and neck cancer patients.

[ 2015 – 2019 ] **BS (Bachelor of Science) Biochemisrty**

**The Islamia University of Bahawalpur, Punjab, Pakistan**

**Weighted Average:** 84.87

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

**Final grade:** CGPA: 3.71/4.00, Percentage 81.6%, Italian Grade System: 104.2/110

## Publications

- 1) Sial, N., Ahmad, M., Hussain, M. S., **Iqbal, M. J.**, Hameed, Y., Khan, M., . . . Atif, M. (2021). CTHRC1 expression is a novel shared diagnostic and prognostic biomarker of survival in six different human cancer subtypes. *Scientific reports*, 11(1), 1-18. **(Nature – Q2 - Impact Factor 4.99)**
- 2) 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*. **(Bentham Science Publisher – Q4 - Impact Factor 2.61)**
- 3) Ahmad, M., Khan, M., Asif, R., Sial, N., Abid, U., Shamim, T., Hameed, Z., **Iqbal, M. J.**, Sarfraz, U., & Saeed, H. (2022). Expression Characteristics and Significant Diagnostic and Prognostic Values of ANLN in Human Cancers. *International Journal of General Medicine*, 15, 1957-1972. **(Dove Medical Press – Q3 - Impact Factor 2.14)**
- 4) Usman, M., Okla, M. K., Asif, H. M., AbdElgayed, G., Muccee, F., Ghazanfar, S., Ahmad, M., **Iqbal, M. J.**, Sahar, A. M., Khaliq, G., Shoaib, R., Zaheer, H., Hameed, Y. A pan-cancer analysis of GINS complex subunit 4 to identify its potential role as a biomarker in multiple human cancers. *American Journal of Cancer Research* 2022;12(3):986-1008. **(e-Century Publishing Corporation – Q2 - Impact Factor 5.94)**
- 5) Shafiq, T., Uzair, M., **Iqbal, M. J.**, Zafar, M., Hussain, S. J., & Shah, S. A. A. (2021). Green Synthesis of Metallic Nanoparticles and Their Potential in Bio-Medical Applications. *Nano Biomedicine & Engineering*, 13(2). **(Scopus Indexed)**
- 6) Saleem S, Sarfraz U, Saeed S, Maryam A, **Iqbal M J**. Role of Molecular Biomarkers in Colorectal Cancer. *IJBC* 2022; 14 (3) :41-56. **(Scopus Indexed)**
- 7) Usman, M., Hameed, Y., Ahmad, M., Rehman, J. U., Ahmed, H., Hussain, M. S., . . . **Iqbal, M. J.** Breast Cancer Risk and Human Papillomavirus Infection: A Bradford Hill Criteria Based Evaluation. *Infectious disorders drug targets*. **(Scopus Indexed)**

## Work Experience

[ 02/2022 – Current ] **Molecular Biologist**

**Access Laboratories (Private) Limited**

**City:** Lahore

**Country:** Pakistan

**Main activities and responsibilities:**

PCR, Gel Electrophoresis, DNA/RNA Extraction, cDNA Synthesis.

[ 07/2018 – 08/2018 ] **Internee**

**Combined Military Hospital, Bahawalpur**

**City:** Bahawalpur

**Country:** Pakistan

**Main activities and responsibilities:**

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

[ 23/12/2021 ] **Organizer at 1st One Day International Conference on Genomics of Beneficial Microbes**

**NIGAB, National Agriculture Research Centre (NARC), Islamabad**

**City:** Islamabad

**Country:** Pakistan

## Teaching Experience

**Crash Course Instructor, Scientific Research Writing**

Department of Eastern Medicine, Government College & University, Faisalabad

Department of Microbiology, Jinnah University for Women Karachi

IEEE Chapter, Capital University of Science and Technology, Islamabad

BIOME Society, COMSATS University Islamabad

IEEE EMB Chapter, COMSATS University Islamabad

Multiomics (SMC-Private) Limited

**Crash Course Instructor, Research Methodology & Data Analysis through SPSS**

Department of Governance and Public Policy, NUML University Islamabad

Multiomics (SMC-Private) Limited

**Instructor, Scientific & Academic Writing Internship Program**

Multiomics (SMC-Private) Limited, Islamabad

## Laboratory Skills

DNA/RNA Extraction, cDNA Synthesis, Gel Electrophoresis, DNA quantification, Polymerase Chain Reaction (PCR)

## Honours & Awards

**Educationist Award, Future Leader Conference**

**Awarding institution:** Volunteer Force Pakistan

**Certificate of Appreciation for promotion of Social Sciences**

**Awarding institution:** The Inter University Consortium for the Promotion of Social Sciences

## Related Skills

### Microsoft Office

Microsoft Word | Microsoft Powerpoint | Microsoft Excel | Microsoft Outlook

### Bioinformatics & Statistical Analysis Tools

SPSS Statistical Tool | Bioinformatics Tools | Python and R for Statistics | Graph Pad Statistics

### Adobe

Adobe Photoshop | Adobe Audition | Adobe Illustrator | Adobe Premier Pro | Adobe After Effects

### Bibliography Tools

Endnote | Mendley

### Advanced scientific databases search

ResearchGate | PubMed | Web of Science | Google Scholar | Scopus

### Google Suit

Google Forms | GOOGLE DRIVE | GMAIL | Google Sheets

## Language Skills

English (IELTS Band 7.5, CEFR: C1), Urdu (National language), Punjabi (Mother language)

## Interpersonal Skills

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

## Online Courses & Workshops

[ 2022 ] **Next Generation Sequencing (NGS) Data Analysis (Workshop)**

Organized by COMSATS University Islamabad

[ 2021 ]

**Diagnosis of COVID-19: Sample Collection, RNA Extraction, PCR, and Data Interpretation (Online Course)**

Organized by COMSTECH Secretariat, Islamabad, in collaboration with International Center for Chemical and Biological Sciences (ICCBS), Karachi

## Referees

### Dr. Ishrat Mahjabeen

Assistant Professor, COMSATS University Islamabad

### Dr. Muhammad Iqbal

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

### Dr. Muhammad Jawad Khan

Associate Professor, COMSATS University Islamabad