



**Sana Abdul Razzaq**

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**Gender:** Female **Nationality:** Pakistani

## WORK EXPERIENCE

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[ 06/12/2022 – Current ]

### Lecturer Medical Laboratory Technology/ Research Supervisor

#### ***Afro-Asian Institute***

**Address: 43-52, Khayaban-e-Kareem Rd, Near Nishtar Metro Station, Lahore, Pakistan**

- Motivated Researcher& Educationist adept in creating positive, engaging, and supportive learning environments for students from diverse backgrounds.
- Planning, preparing teaching materials, and delivering lessons.
- Adept in the use of technology in teaching practice.
- Medical Sciences with Education and English language background is a blend that promotes integrated teaching methodology.
- Meticulous and detail-oriented with excellent observational and communication skills.
- Experience teaching to 2<sup>nd</sup>, 3<sup>rd</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> semester of MLT, subject domains include Clinical lab practices, Clinical Genetics, Molecular Biology, Biosafety& Biohazards, Quality Assurance& Management, Bioinformatics, Molecular Biology and General Pathology.
- Research Supervisor having profound knowledge of research methodology.

[ 15/06/2019 –  
18/05/2022 ]

### Senior Medical Laboratory Technologist

#### ***Al-Razi International Lab& Research Centre (PVT) LTD***

**Address: 38-Abbass Block, Mustafa Town, Wahdat Road, Lahore, Pakistan**

- Performed PCR based Molecular Assays, qPCR, Qubit and nanodrop, automated/ manual purification of DNA/RNA, manual DNA/RNA extraction from blood using QIA Amp Spin column kit and trizol method respectively.
- Worked on analyzers Cobas c111, Cobas c311, Microlab 200, Microlab 300 Sysmex kx-21, Humalyte Plus 3, Beckman Coulter, Sysmax xt 1800i, TosohAIA 360, Elisa Reader, Qiagen PCR.
- Ensured safe specimen collection/preparation, safety& cleanliness of the labs as per the hospital policies and laboratory procedures.
- Carefully monitored maintenance and troubleshooting of the analytical instruments and lab procedures according to the SOP's and established protocols.
- Verification of records, accurate reporting of the test results communicated effectively to the physician.

## EDUCATION AND TRAINING

[ 04/09/2019 –  
26/11/2021 ]

### Masters in Philosophy (M.Phil) Molecular Pathology& Genomics

**Forman Christian College University(FCCU)**

<https://www.fccollege.edu.pk/>

**Address:** Ferozepur Road, 54600, Lahore, Pakistan

**Final grade:** 3.207 CGPA **Number of credits:** 30

**Thesis:** MOLECULAR PROFILING OF STY3178 GENE (ENCODES A YFDX PROTEIN) FROM LOCAL XDR SALMONELLA TYPHI STRAIN

- Learned and used different bioinformatics approaches of acquiring data from databases to prediction of protein structure and function by Molecular Docking, for drugs discovery interventions.
- Explored and hands on experience on Biological databases and tools available on these webs Such as NCBI, EMBL-EBI, PDB.
- Succesfully used PYMOL and Auto Dock Vina.
- Hands on training on Whole genome variant calling pipeline using Galaxy interface.

[ 09/01/2015 –  
29/06/2019 ]

### Bsc. Hons Medical Laboratory Technology (MLT)

**Allama Iqbal Medical College (AIMC)**

<https://aimc.edu.pk/>

**Address:** Quaid-i-Azam Campus, Punjab, Lahore, Pakistan

**Field(s) of study:** Pathology | Molecular Biology | Microbiology& Parasitology | Hematology&Blood banking | Immunology&Serology | Chemical Pathology | Research Methodology & Biostatistics | Histopathology& Cytology

**Final grade:** 66.12% **Number of credits:** 120

**Thesis:** Expression Analysis of Cellular Genes TGF and VEGF in patients of HCV induced Hepatocellular Carcinoma (HCC)

- Learned Nucleic acid extraction methods
- Performed PCR both qualitative and quantitative
- RNA quantification and purification.

[ 04/09/2016 –  
28/02/2019 ]

### Masters in TESOL (Teaching of English Language to Speakers of Other Languages)

**Lahore College for Women University (LCWU)**

<https://www.lcwu.edu.pk/>

**Address:** Lahore College for Women University, Jail Road, Lahore, Pakistan

**Field(s) of study:** Phonetics& Phonology | Teaching Grammar | Pedagogical Skills | Teaching Literature | Syntax& Semantics

**Final grade:** B **Number of credits:** 78

**Thesis:** A STUDY TO INVESTIGATE FACTORS AFFECTING ACADEMIC EXCELLENCE OF WORKING PROFESSIONALS STUDYING IN ELT/TESOL EVENING/WEEKEND PROGRAMS FOR THEIR PROFESSIONAL DEVELOPMENT.

-- Learned much about research methodology

[ 01/04/2014 –  
31/08/2016 ]

## Bachelor in Arts

### ***University of the Punjab***

**Address:** P.O. Box No. 54590, Lahore, Pakistan

<http://www.pu.edu.pk/>

**Field(s) of study:** Arabic | Journalism | Applied Psychology

**Final grade:** A

[ 01/09/2010 –  
23/09/2013 ]

## Fsc-Pre Medical

### ***Punjab College for Women***

**Address:** 27C, Noon Avenue, Punjab College for Women, New Muslim Town, Lahore, Pakistan

<https://pgc.edu/>

**Field(s) of study:** Physics | Chemistry | Biology

**Final grade:** A+

[ 01/04/2008 –  
01/06/2010 ]

## GCE O' Levels

### ***Divisional Public School& Intermediate College***

**Address:** Block H, Model Town, Lahore, Pakistan

<https://www.dpslahore.edu.pk/>

**Field(s) of study:** Physics | Chemistry | Biology | Mathematics

**Final grade:** A

[ 01/09/2020 –  
31/08/2021 ]

## Researcher

### ***Bioinformatics Lab, Forman Christian College University***

<https://www.fccollege.edu.pk/>

**City:** Lahore **Country:** Pakistan

-Learned and used online softwares from acquiring data from databases to predict protein structure and function of proteins as well as Molecular Docking procedures for drugs discovery interventions. Softwares accessed from NCBI, EMBL-EBI, PDB, PYMOL, Auto Dock Vina, BioEdit, Mega for phylogenetic analysis.

[ 01/06/2018 –  
30/04/2019 ]

## Student Researcher

### ***Resource Lab, University of Health Sciences (UHS)***

[https:// www.uhs.edu.pk/](https://www.uhs.edu.pk/)

**City:** Lahore **Country:** Pakistan

•Learned & Performed Nucleic Acid extraction& Isolation using different methods, Managed cDNA synthesis,

•Agarose Gel making& electrophoresis.

•Performed PCR (Quantitative and Qualitative), setting up controls and interpreting results accordingly.

**Pathology Lab, Allama Iqbal Medical College (AIMC)**

<https://aimc.edu.pk/>

**City:** Lahore **Country:** Pakistan

**Field(s) of study:** Medical Laboratory Technology

- Learned & Managed both basic and complex testing, with 6 months rotation In each section
  - Urinalysis,
  - Hematology,
  - Chemical Pathology,
  - Microbiology,
  - Histopathology,
  - Immunology & Serology and
  - Molecular Biology.

## LANGUAGE SKILLS

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**Mother tongue(s):** Urdu

**Other language(s):**

**English**

**LISTENING C1 READING C1 WRITING C1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

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Microsoft Office | zoom | L M S | S o c i a l M e d i a