

Sadia Mushtaq

Address: House #1030, Khurram Block, Canal Bank, Salamatpura Road, Lahore.

Phone: +92-335-8347279

Email: sadiamushtaq501@gmail.com

Nationality: Pakistani

Gender: Female

CAREER OBJECTIVES Looking for work in a progressive organization to pursue a challenging career where I enhance my knowledge and skills towards the progress of the organization. Highly motivated individual committed to hard work and intensive analysis.

LANGUAGES

- English
- Urdu

EDUCATION

MS (Biological Sciences), School of Biological Science, University of the Punjab, Lahore *2018 - 2020*

Thesis: Continue till May 2020

CGPA: 3.61 (2nd Semesters)

BS (Biotechnology), Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore *2014 - 2018*

Thesis: Molecular characterization of begomoviruses infecting new host plant *Petunia hybrida* in Pakistan

CGPA: 3.66 (1st Div.)

Minored: Biochemistry, Microbiology and Molecular Biology

F.Sc (Pre-Medical), Lahore College for Women University, Lahore *2014*
Marks: 88.7% (1st Div.)

Matric (Science), Al-Ayesha High School, Lahore *2012*
Marks: 93.7% (1st Div.)

WORK EXPERIENCE

Researcher, Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore *01/2018 - 07/2018*

Responsibilities:

- Wrote thesis, reports and summaries regarding research topic.
- Performed research into study topics to increase knowledge and ability to provide valuable contributions.
- Collaborated with staff to develop and implement best practices and accomplished all team goals.

Home tuition, Biology teacher for matric and intermediate students, *05/2015 - 05/2018*

Lahore

Responsibilities:

- Assessed student comprehension through regular quizzes, tests and assignments.
- Diversified teaching techniques and learning tools help students with differing ability levels and varied learning modalities.
- Established positive and encouraging relationship with students and helped to foster appreciation for biology and science.

07/2017 – 08/2017

Food lab intern, Pakistan Council of Scientific and Industrial Research, Lahore

Responsibilities:

- Utilized expertise in microbiology, biotechnology and biochemistry to help with improvement of production and quality standards.
- Handled specimens according to laboratory protocols to maximize accuracy and precision of results.
- Improved quality processes for increased efficiency and effectiveness.

PROJECTS

2019

MS, School of Biological Science, University of the Punjab, Lahore

Topic: Purification of mitochondrial malate dehydrogenase from bubaline (*Bubalus bubalis*) heart

2016

BS, Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore

Topic: Production of ethanol from grapes using baker's yeast (*Saccharomyces cerevisiae*) on lab scale

**TECHNICAL
EXPERTISE**

Molecular biology

- Genomic DNA, RNA and plasmid isolation
- Agarose gel electrophoresis
- PAGE
- cDNA synthesis
- Polymerase Chain Reaction (PCR)
- Rolling Circle Amplification (RCA)
- Molecular Cloning (ligation, transformation, plasmid isolation and restriction analysis)

Microbiology

- Microbial isolation and culturing
- Microbial identification and characterization
- Antibiotic sensitivity
- Aseptic techniques

Biotechnology and Biochemistry

- Spectrophotometry (Nanodrop and Pico drop)
- ELISA
- Western blotting
- Recombinant DNA technology
- Biomolecules identification assays
- Distillation

Bioinformatics tools

- NCBI blast
- MUSCLE

- RDP4
- SDTV1.2
- ORF finder
- DNA-STAR
- Primer3
- MEGA7

EXTRACURRICULAR ACTIVITIES

Graphic design, E-rozgaar scheme, University of Engineering and Technology, Lahore. 06/2019 – 09/2019

11/2018

Volunteer, Fun Fiesta, University of the Punjab, Lahore.

- Active participant
- Event coordinator

12/2015

Participant, National Academy of Young Scientists in collaboration with Pakistan Stem Cells Society, University of the Punjab, Lahore. Learned:

- Stem cells types
 - Research articles
 - Laboratory techniques
-

ACHIEVEMENTS

- Awarded fully funded M-Phil scholarship
 - Received PM merit laptop
 - Recipient of HEC scholarship
-

INTEREST

- Exploring diversities
 - Creative designing
 - Social work
-

REFERENCE

Dr. Soumble Zulfiqar, Assistant Professor
School of Biological Sciences
University of the Punjab, Lahore
Phone: +92-302-4950052
Email: soumblen.sbs@pu.edu.pk; soumblen@gmail.com

Dr. Muhammad Shahbaz Aslam, Assistant Professor
Institute of biochemistry and biotechnology
University of the Punjab, Lahore
Phone: +92-300-4874945
Email: shahbaz.ibb@pu.edu.pk