



Ambreen Zahra

Nationality: Pakistani

Gender: Female

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Date of birth: 04/01/1994

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PhD Biotechnology (Candidate)

WORK EXPERIENCE

Research Associate: National Center of Genome Editing, CAS, UAF, Faisalabad, Pakistan.

[20/11/2021–Current]

- Loop-mediated isothermal amplification (LAMP)
- qPCR, RT-PCR
- CRISPR-based diagnostic assays
- In-silico identification of SNPs

Research Student: University of Debrecen, Hungary [2018–2020]

- Molecular cloning
- Transformation
- Transfection
- Site-directed mutagenesis
- Immunohistostaining
- Confocal laser scanning microscopy

Instructor (Lecturer): Department of Microbiology, Riphah International University, Pakistan.

[01/09/2016 – 08/09/2018].

Major courses taught;

- Molecular Biology
- Introduction to Microbiology
- Bacteriology and Mycology

EDUCATION AND TRAINING

PhD Biotechnology

University of Agriculture Faisalabad [28/10/2021–In-Progress]

MSc Molecular Biology

University of Debrecen, Hungary [01/09/2018–03/08/2020]

Doctor of Veterinary Medicine

University of Agriculture Faisalabad [09/10/2011–30/06/2016]

Higher Secondary School Certificate (Pre-medical)

Board of Intermediate & Secondary Education, Faisalabad, Pakistan [2009–2011]

LANGUAGE SKILLS

Mother tongue(s): Punjabi | Urdu

English Language:

Listening C1	Reading C1	Writing B2
Spoken Production B2	Spoken Interaction B2	

COMMUNICATION AND INTERPERSONAL SKILLS

Communication skills

- Excellent presentation and negotiation skills
- Excellent written and verbal communication
- Good presenter and empathic listener

Organizational/Managerial skills

- Time management
- Multitasking
- Project management.

Job-related skills

- Good command of pipetting, weighing chemicals, measuring solutions, and handling laboratory equipment
- Treating and dressing wounds in laboratory animals and farm animals
- Good command of performing PCR and CRISPR-based diagnostic essays.
- Punctual and timely managed the assignments and tasks.

Technical Skills

- BioLinux, Biorendor, Pymol, Chimera UCFS, MiniTab.
- Microsoft Tools, Corel Draw
- Data Searching and Browsing

PUBLICATIONS

- **The SHERLOCK Platform: An Insight into Advances in Viral Disease Diagnosis.**
Zahra, A., Shahid, A., Shamim, A., Khan, S. H., & Arshad, M. I. (2023). The SHERLOCK Platform: An Insight into Advances in Viral Disease Diagnosis. *Molecular Biotechnology*, 65(5), 699-714.
- **Comparative analysis of ACE2 mutations and their impact on SARS-CoV-2 susceptibility within diverse ethnic groups**
Rabia Shafique, Ambreen Zahra, Muhammad Hassan Butt, Sultan Habibullah Khan, Waqas Rafique Ali, Muhammad Imran Arshad, Amen Shamim. *Journal of Biomolecular Structure and Dynamics*.
- **Appraisal of CRISPR Technology as an Innovative Screening to Therapeutic Toolkit for Genetic Disorders**
Ayesha Shahid, Ambreen Zahra, Sabin Aslam, Amen Shamim, Waqas Rafique Ali, Bilal Aslam, Sultan Habibullah Khan, Muhammad Imran Arshad. *Molecular Biotechnology*.
- **Principles and practices in biosafety, bio risk management, and bioethics (Published).**
Sunder Publishers Faisalabad and University of Agriculture Faisalabad (ISBN: 978-627-7502-07-2). Muhammad Imran Arshad, Ayesha Shahid, Ambreen Zahra, Aqsa Ahmad, Zunaira Afzal, Nehal Ahmad Khan, Sultan Habibullah Khan
- **Detection of SARS-CoV-2 by RT-LAMP assay in Human COVID-19 patients.**
Ali, W. R., Zahra, A., Rasheed, H., Ahmad, A., Khan, S. H., Shamim, A., ... & Arshad, M. I. (2022, August). Detection of SARS-CoV-2 by RT-LAMP assay in human COVID-19 patients. In *2022 19th International Bhurban Conference on Applied Sciences and Technology (IBCAST)* (pp. 381-385). IEEE.
- **The comparative efficacy of nalbuphine and tramadol in controlling postoperative shivering in rabbits.**
Rabbani, A. H., Hayat, K., Qamar, A. G., Gardezi, S. F. H., Waheed, A., Adil, M. F., ... & Waqas, M. (2020). The comparative efficacy of nalbuphine and tramadol in controlling postoperative shivering in rabbits. *Matrix Science Medica*, 4(1), 9-14.
- **A comparison of nalbuphine and pentazocine in controlling postoperative pain in dogs.**
Rabbani, A. H., Hayat, K., Gardezi, F. H., Waheed, A., & Zahra, A. (2018). A comparison of nalbuphine and pentazocine in controlling post-operative pain in dogs. *Matrix Sci. Med*, 2(2), 15-20.

CONFERENCES AND SEMINARS

- International Conference on Food Security Challenges and opportunities in D-8 Countries [Pakistan, March 6-7, 2023].
- 3rd International Training Workshop on Biotechnology, Bioinformatics, and Biochemistry (March 9-10, 2023).
- Biosafety, Biological Waste Management & Responsible Science Workshop [September 28, 2022].

- Hands on Training on the Applications of AI, IoT, and Robotics in kitchen Gardening Using Vege-Board [September 22, 2022].
- Training & Awareness Campaign food safety- A shared Responsibility [August 23, 2022].
- Public Health Seminar “World Hepatitis Day” [July 28, 2022].
- 2nd National Hands-on training on CRISPR Cas-mediated genome editing [Faisalabad Pakistan, May 23-27, 2022].
- Organized 1st National Hands-on training on CRISPR Cas mediated genome editing (February 21-25, 2022) as Resource person.
- Stakeholders and consultative seminar on “World One-Health Day” organized by U.S.-Pakistan Center of Advance Studies [Pakistan, November 3, 2021].
- Short Course on BioLinux.

HONOURS AND AWARDS

- Received Stipendium Hungaricum Scholarship for M.Sc [2018].
- 5th position in DVM (2011-2016).
- Internal Merit Scholarship awarded by the University of Agriculture Faisalabad in the year 2012-2016.
- Registered Veterinary Medical Practitioner by Pakistan Veterinary Medical Council.

NETWORKS AND MEMBERSHIPS

- Worked as a mentor at “HOOK Stipendium Hungaricum Mentor Network ” [2019–2020]
- Worked as Vice President of the University of Agriculture, Faisalabad
- Worked as President of the CAS Students Society “Science Riders”

RECOMMENDATION

1. Supervisor

Name: Prof. Dr. Peter Nagy

Email: nagyp@med.unideb.hu

University of Debrecen

2. Professor

Name: Prof. Dr. Bushra Sadia

Email: bushra.sadia@uaf.edu.pk

Director Center of Agricultural Biochemistry & Biotechnology

University of Agriculture Faisalabad, Pakistan