

PERSONAL BIODATA

- **Name:** Hazrat Zaman
- **Date of Birth:** January 16th, 1995
- **Gender:** Male
- **Nationality:** Pakistani
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- **Research gate profile:** https://www.researchgate.net/profile/Hazrat_Zaman

**AVAILABILITY**

- College/School Teaching
- Home Tutions.

EDUCATION

Degree	Division	Marks/GPA	Passing Year	Institute
MS/MPhil (Microbiology & Molecular Genetics)	1 st	3.75/4.00 (83.00%)	Jan, 2020	University of The Punjab, (PU), Lahore, Pakistan.
BS (Microbiology) (Gold Medalist)	1 st	3.94/4.00 (84.13%)	2017	Kohat University of The Science & Technology, Kohat, Peshawar (KUST)
GCE/A-Level (Pre-Med)	1 st	755/1100	2012	Cambridge University, UK
IGCSE/O-Level (Science)	1 st	673/900	2010	Cambridge University, UK

Research Laboratory in Master of Science (MS)

“Immunology Lab, Department of Microbiology & Molecular Genetics”, University of The Punjab, Lahore, Pakistan.

- **Supervisor/Lab Head:** Dr. Zaigham Abbas
- **Research Topic:** Evaluation of Adipose derived stem cells to reduce airway inflammation in car ACs dust induced asthma mice
- **Research Article:** In progress from MS research work.

Research Laboratory in Bachelor of Science (BS)

“Vector borne diseases lab, Department of Microbiology”, Kohat University of Science and Technology, Pakistan.

- **Supervisor:** Dr. Taj Ali Khan
- **Research Topic:** “Biofilm formation and antimicrobial susceptibility pattern of *Escherichia coli* isolates from urine sample of urinary tract infection (UTI) patients in Kohat”.
- **Research Article:** Published as primary author in International Journal of Biosciences

ACADEMIC AWARDS

- Kohat University of Science and Technology, Pakistan, Awarded **Gold Medal** for being topper with CGPA 3.94/4.00 in Bachelor of Science in Microbiology (2013-2017).
- University of The Punjab, Pakistan, Awarded **Merit scholarship** for study in Master of Microbiology & Molecular Genetics (2018-2020).
- Kohat University of Science and Technology, Pakistan, Awarded **Merit scholarship** for study in Bachelor of Science in Microbiology (2013-2017).

- **HEC-German Merit & Need Based Scholarship** by Higher Education Commission of Pakistan for Excellent Academic performances in BS Microbiology at Kohat University of Science and Technology, Pakistan.
- SST Public School Tando Allah Yar, Pakistan awarded full **merit scholarship for O-Level & A-Level**.

TEACHING/WORK EXPERIENCE

- **Teaching assistant** in a course of “Monoclonal Antibodies” at University of the Punjab, Pakistan.
- **6 months as Lecturer of Biology** at National College of Science & Technology DI Khan, Pakistan.
- One month **Internship** in Pathology Department DHQ Hospital Kohat, Pakistan.

RESEARCH EXPERIENCE

1) University of The Punjab, Pakistan.

Immunology Research Group, Department of Microbiology & Molecular Genetics, University of The Punjab, Lahore, Pakistan.

- Induced **Asthma in mice model** through filters dust using nebulizer.
- Treated asthmatic mice through **Stem cells** conditioned media.
- Performed mice intraperitoneal, tail injections, blood collection & dissection.
- Performed **qualitative PCR** for detection of different genes related to asthma.
- Learned **PCR primer designing** using **NCBI primer tool and Primer3plus**
- **Isolation and characterization** of bacteria and fungi in car ACs filters dust
- Optimized and learned **Multiplex PCR** to detect several genes in a gene PCR reaction
- Learned **data collection** and statistical analysis

2) Kohat University of The Science & Technology, Pakistan.

Department of Microbiology, Lab, Kohat university of The Science & Technology, Pakistan

- Performed **Conventional PCR** to detect ***bla*_{TEM}** gene in *E. coli* isolates.
- Worked on **morphological and biochemical** characterization of bacteria
- Developed **antibiotic susceptibility pattern (using disk diffusion method)** for bacteria isolated from UTIs patients
- Isolated and identified several **Bacteria** from Urine samples
- Performed **Congo-red Agar assay** for detection of **biofilms** formation ability in bacteria

RESEARCH PUBLICATION (Online)

Research papers currently online

1. Hazrat Zaman, Nisha Zahid, Bushra Israr, Taj Ali Khan. **Biofilm formation and Antimicrobial susceptibility pattern of *E.coli* isolates from UTIs patients**. International Journal of Biosciences. 2019; 15 (6): 240-246 (ISSN 2222-5234) (Published).
2. Muhammad Ateeq, Hameedullah, Hazrat Zaman, *et al.* **Occupational allergic contact dermatitis in tannery workers: an underestimated health issue**. Journal of Entomology and Zoology studies. 2016; 4(5): 310312 (Published). (ISSN 2320-7078).
3. Shehzad Zareen, Hira Zareen, Hazrat Zaman. **Burden of Plasmodium vivax and Plasmodium falciparum in Afghan Refugee Camps located at Ghamkol Road Peshawar bypass District Kohat**. Journal of Entomology and Zoology studies. 2016; 4(5): 177-183. (ISSN 2320-7078). (Published). (ISSN 2320-7078).

SUBMITTED & UNPUBLISHED RESEARCH PAPERS

1) **Journal name: The Journal of Animal and Plant Sciences.**

Status: (Under review)

Title: Trans Placental Hepato-curative Potential of Garlic against Sodium Arsenate Induced Oxidative Stress in Mice.

Authors: Shagufta Andleeb, Nafeesa Aslam, Madiha Habib, Hazrat Zaman, *et al.*

2) Tanveer Ali, Azeem Javed, Asad Ali, Hazrat Zaman, *et al.* **Prevalence of Tuberculosis: The first molecular epidemiology from war-affected region, Kurram Agency, Pakistan** (Manuscript in preparation)

3) Paper from Master Thesis “**Evaluation of Adipose Derived Stem Cells to Reduce Air Way Inflammation in Car ACs Dust Induced Asthma Mice Model.**” (Manuscript in preparation).

TECHNIQUES LEARNED

- PCR Primer designing
- RT-PCR
- Multiplex PCR
- SDS-PAGE
- Microscopy
- DNA extraction
- RNA extraction
- cDNA Synthesis
- Gel electrophoresis
- Growth media
- MTT Assay
- Cell Culture (HCT-116)
- Mouse handling and dissection
- Gene Expression analysis
- Antibiotic susceptibility profile (Disk diffusion method)
- Bacteria culturing and identification
- Gel DNA extraction

MAJOR SUBJECTS STUDIED

Immunology, Cancer Biology, Cell Biology, Microbial Genetics, Molecular Biology, Medical Microbiology, Virology, Mycology, Statistics, Microbial Ecology, and Biochemistry.

ONLINE COURSE

- Certification in **Fundamentals of Immunology: Innate Immunity and B-Cell Function** awarded by **RICE University** and offered through Coursera.
- Certification in **Understanding Research Methods** awarded by University of London and SOAS University and offered through Coursera.

LANGUAGES

1) **English (IELTS Score by British Council)**

Listening	Reading	Writing	Speaking	Overall Score
7.5	6.5	6.0	6.5	6.5

2) **IGCSE International Examination by Cambridge University “English as first language” C Grade**

3) Urdu (Full professional proficiency)

4) Pashto (bilingual proficiency)

COMPUTER SOFTWARE’S SKILLS

- Microsoft office programs
- NCBI Blast
- Clustalw alignment tool
- Primer3plus
- EndNote

EXTRA CURRICULAR ACTIVITIES

- House Captain in SST Public School
- Cricket & Volleyball Captain of school teams at SST School
- Community Service Certificate
- School Prefect at SST School

ACADEMIC SOCIETIES MEMBERSHIP

- American Society of Microbiology (ASM)
- European Academy of Allergy and Clinical Immunology (EAACI)

REFERENCES

Supervisor (Bachelor Degree Research & Thesis)

Dr. Taj Ali Khan (PhD)
Assistant Professor
Department of Microbiology,
Kohat University of Science and Technology,
Pakistan.
Email: taj.ali@kust.edu.pk

Supervisor (Project & Master Degree Research & Thesis)

Dr. Zaigham Abbas (PhD)
Assistant Professor
Department of Microbiology & Molecular Genetics,
University of The Punjab, Pakistan.
Email: zaigham.mmg@pu.edu.pk