

Dr. ASIF IQBAL

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R⁶ Website: https://www.researchgate.net/profile/Asif_Iqbal30/info

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Google Scholar: <https://scholar.google.com/citations?user=9YGISfUAAAAJ&hl=en>

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Summary

Dr. Asif Iqbal did PhD Microbiology from the Department of Microbiology, Hazara University, Pakistan in June 2025. His research primarily focuses on understanding genetic variations and molecular mechanisms underlying human diseases, with a particular emphasis on hereditary disorders and genomic medicine. Dr. Iqbal's work involves innovative approaches to gene identification, molecular diagnostics, and targeted therapies, contributing significantly to the field of precision medicine. He has extensive teaching and research experience in molecular genetics, biotechnology, and medical sciences.

Academic Qualification

Degree	Title	Year	Subject	Institution
Ph.D.	Doctor of Philosophy	2019-25	Microbiology	Hazara University Mansehra KPK Pakistan
M.Phil.	Master of Philosophy	2016-18	Microbiology	Abasyn University Peshawar KPK Pakistan
M.Sc.	Master of Science	2013-15	Microbiology	Abasyn University Peshawar KPK Pakistan
C.T	Certificate in Teaching	2013-14	Teaching	AIOU. Islamabad Pakistan
B.Sc.	Bachelor of Science	2011-13	Biological Science	AWKUM, KPK Pakistan
F.SC	Intermediate	2009-11	Medical	BISEM, KPK Pakistan
SSC	Matric	2007-09	Science	BISEM, KPK Pakistan

Professional Research Skills

- Expertise in Medical Microbiology and Molecular Biology, including infectious disease surveillance, microbial community analysis, and laboratory safety protocols.
- Skilled in advanced microscopy techniques such as Scanning Electron Microscopy and Epifluorescent Microscopy.
- Proficient in molecular techniques including DNA extraction, PCR-DGGE, ELISA, and Next-Generation Sequencing, with experience in amplicon data analysis using Galaxy Pipeline.
- Strong background in water and wastewater microbiology, microbial functional profiling, and environmental microbiological systems.
- Experienced in operating analytical instruments like ICP-OES, GC-MS, Atomic Absorption, and UV-spectrophotometers.
- Competent in statistical analysis using ANOVA, multivariate modeling, XLSTAT, and SPSS.

Experiences:

- Worked as an **Assistant Professor** at HBS Medical and Dental College Islamabad Pakistan from April 2024 – January 2025.
- Worked as an **Assistant Professor** at Department of Nursing and Allied Health Sciences, Alhamd Islamic University Islamabad Pakistan from February 2023 - March 2024 (1 year 2 months).
- Worked as a Visiting Assistant Professor in International Islamic University, Islamabad from September 2023 – October 2024 (1 year 1 months)
- Worked as a Scientific Research Associate from May 2020 - April 2023 (3 years) in COMSATS University Islamabad, Abbottabad Campus, Khyber Pakhtunkhwa, Pakistan
- Worked as **lecturer** at Islamia degree college Peshawar Pakistan from March 2019 - July 2022 (3 years 5 months).
- Worked as **lecturer** at Iqra College Peshawar Pakistan from December 2015 - May 2018 (2 years 6 months).
- Worked as **lecturer** at NHS & college Peshawar for 8 months.
- Worked as **lecturer** at SPS & college Mardan for 1 year months.

Awards and Honors

- **Ph.D.** scholarship by HEC Pakistan 2018-2023. (**NEST**)
- Certificate of appreciation by **ASM** 2021, 2022 & 2023.
- Certificate of participation by **ASM** in “Microbe in Action” seminar (2022).
- Certificate of participation in 2022 **Young Scientist Research** Conference by Foundation University, School of Health Sciences Islamabad (2022).
- Certificate of appreciation by **CUI** Abbottabad for organizing QEC workshop (2022).
- Certificate of participation in “International Webinar on Microbial Diversity in Changing Climate” by **CUI** Abbottabad (2021).
- Certificate of participation in “International Webinar on Air pollution, Climate Change and their impacts on Mountainous Water resources by **CUI** Abbottabad (2021).
- Best Lecturer award by **Iqra College** Peshawar KPK Pakistan (2018).
- Certificate of participation in seminar on “**Research** Methodology, Proposal and Thesis Writing”(2016).
- Certificate of appreciation by **AWKUM** in Social Works (2013).
- Certificate of Honour by **GDC** Toru Mardan in Inter College Basketball Tournament (2013).
- Certificate of Honour by **FMS** Toru Mardan (2011).

Courses Taught and Supervision:

- General Microbiology
- Biotechnology
- Bacteriology
- Molecular Diagnostics
- Virology
- Mycology
- Microbial Diversity
- Molecular Biology
- Bacterial genetics
- Genomic Medicine
- Biochemistry of Metabolism and digestion
- Health Planning and financing
- Fundamentals principles of infectious diseases
- Fundamentals principles of Epidemiology
- Biostatistics.
- Introduction to BioScience

- **Supervision:**
 - ✓ BS Students Passed: 10 | Enrolled: 6
 - ✓ MPhil Students Passed: 11 | Enrolled: 5
 - ✓ Co-supervision: 4 research students

Publications

1. **Iqbal A**, Mehboob Z, Haq I. Assessment of Current Medical Management Approaches for Thyroid Nodules and Cancer in a Tertiary Care Setting. IRABCS [Internet]. 2024 Dec. 25, 2(2):199-204. Available from: <https://irabcs.com/ojs/article/view/78>
2. **Iqbal, A.**, Saif Ali, M. A., Saeed, M., Ullah, N., Ihsan, A., Hussain, R., & Qureshi, W. M. (2022). Perspectives and Applications of Plant Microbe Interactions in Post Genomic Era. *Annals of the Romanian Society for Cell Biology*, 26(01), 1216-1226. <https://www.annalsofrscb.ro/index.php/journal/article/view/11000> (Impact Factor: 0.54, Scopus/HEC Y Category)
3. Kashif, H. M. **Iqbal. A**, (2022). The use of Terminal Technology (Gurt) in Producing New Seed Varieties and Their Impact on Farmers. *Annals of RSCB*, 26(1), 799-812. <https://www.annalsofrscb.ro/index.php/journal/article/view/10895> (Impact Factor: 0.54, Scopus/HEC Y Category)
4. **Iqbal, A.**, Bhatti, Z, A., Siddiqui, M. F., Zeb S., Zhao, Y., Xu L., Ahmad S., Hussai, Z., (2024) Effect of electrode in UASB-MFC reactor for nitrogen removal under anammox condition and its microbial community profile. *Desalination and Water Treatment.*, Vol 317(2): 20-29 DOI: [10.1016/j.dwt.2024.100300](https://doi.org/10.1016/j.dwt.2024.100300) (Impact Factor: 1.248, Scopus/WOS/HEC W Category).
5. **Iqbal, A.**, Ahmed, A., Rehman, S., & Ali, R. (2024). Impact of Long-Term Aspirin Use on Cardiovascular Disease Prevention and Bleeding Risks. *Innovative Research in Applied, Biological and Chemical Sciences*, 2(2), 193-198.
6. **Iqbal, A.**, Mehboob, Z., & Haq, I. (2024). Assessment of Current Medical Management Approaches for Thyroid Nodules and Cancer in a Tertiary Care Setting. *Innovative Research in Applied, Biological and Chemical Sciences*, 2(2), 199-204.
7. **Iqbal, A.**, Muhammad, R., & Khan, B. B. (2023). Comparative study of C-reactive protein and complete blood count in cancer and non-cancer patients followed by antibiogram analysis of isolated bacterial pathogens. *J Bacteriol Mycol Open Access*, 11(1), 1-4. DOI: [10.15406/jbmoa.2023.11.00334](https://doi.org/10.15406/jbmoa.2023.11.00334) (Impact Factor: 0.7)
8. Altaf, R., Ullah, Z., Darko, D. **A., Iqbal, A.**, Khan, M. S., & Asif, M. (2022). Molecularly imprinted polymers for the detection of chlorpyrifos (an organophosphate pesticide). *ASEAN Journal of Science and Engineering*, 2(3), 257-266. DOI: <https://doi.org/10.17509/ajse.v2i3.41351> (Impact Factor: 0.64 Scopus) https://scholar.google.com/citations?view_op=view_citation&hl=en&user=9YGISfUAAAAJ&citation_for_view=9YGISfUAAAAJ:M3ejUd6NZC8C
9. **Iqbal A**, Raza MH, Jadoon H, et al (2022). Applications of nanomaterials for health and environment protection. *MOJ Eco Environ Sci.*; 7 (3):84–87. DOI: [10.15406/mojes.2022.07.00251](https://doi.org/10.15406/mojes.2022.07.00251) (Impact Factor: 0.34)
10. **Iqbal, A.**, Rehman, S., & Haq, I. (2024). Prevalence and Risk Factors of ENT Symptoms in Extra-Pulmonary Tuberculosis Patients. *Innovative Research in Applied, Biological and Chemical Sciences*, 2(2), 242-247.
11. Jamshed, A., **Iqbal, A.**, & Ali, S. (2023). A quick review on the applications of nanomaterial's as adsorbents. *MOJ Eco Environ Sci*, 8(3), 86-89. DOI: [10.15406/mojes.2023.08.00278](https://doi.org/10.15406/mojes.2023.08.00278) (Impact Factor: 0.34)

12. Khan, S., Mujaddad, M., Uddin, M. N., Ullah, S., Rasheed, A., Jatoi, N. A., & **Iqbal, A.** (2020). Strategies adopted by Government of Pakistan to cope with the pandemic and comparative cases of COVID-19 in all provinces of Pakistan. **Adv. Biores**, 11, 91-96. (**Google Scholar**)
13. Rawat, A., Firdous, S., Naz, B., Momin, A., Mehboob, Z., **Iqbal, A.**, & Rasheed, A. (2024) Treatment and Prevention of Covid-19 Respiratory Symptoms Through Medicinal Herbs in Islamabad, Pakistan. *J. Plantarum.*, 5(1): 59-68 (**Impact Factor: 0.2, WOS/HEC Y Category**)
14. Yousuf, **Iqbal, A.**, S., Donald, A. N., & Hassan, A. B. U. M. (2022). A review on particulate matter and heavy metal emissions; impacts on the environment, detection techniques and control strategies. *MOJ Eco Environ Sci*, 7(1), 1-5. DOI: [10.15406/mojes.2022.07.00239](https://doi.org/10.15406/mojes.2022.07.00239) (**Impact Factor: 0.34**)

PROJECTS

- **PhD Research Project Thesis Title:** Anaerobic Ammonium Oxidation and Bioelectricity Production From Wastewater through Anammox Up-Flow Microbial Fuel Cell
- Funded by Higher Education Commission, Pakistan under NRPUR No. 8985.

Current Journal Roles

- **Peer Reviewer**
 - ✓ ELSEVIER Reviewer
 - ✓ Desalination and Water Treatment
 - ✓ Journal of Bacteriology & Mycology: Open access (JBMOA) eISSN: 2469 - 2786
 - ✓ MOJ Ecology & Environmental Sciences (MOJES) eISSN: 2573-2919
 - ✓ International Journal of Innovative Science and Research Technology (IJISRT). ISSN No.:2456-2165
 - ✓ Journal of Emerging Technologies and Innovative Research ISSN: (JOETAIR). ISSN: 2349-5162. ID: 222797
 - ✓ Scholar9 platform ID: S9-052024-0401249 <https://scholar9.com/reviewer/profile>
- **Societies/ Certifications**
 - ✓ American Society of Microbiology, Credential ID: 200026761
 - ✓ Society for Experimental Biology and Medicine, User ID: 71794979
 - ✓ Pakistan Science Foundation
 - ✓ Pakistan Society of Microbiology, Credential ID: 12019
 - ✓ American Chemical Society (ACS), Credential ID: 33559656

▼ **Computer Skills**

- MS OFFICE, SPSS, Endnote, Internet, Window, Expert in thesis articles writing, Expert in making attractive presentations.

▼ **Hobbies And Interests**

- ✓ Reading knowledgeable books.
- ✓ Playing different indoor games.
- ✓ Using Internet for gathering different types of information.
- ✓ Exploring new and different things. Traveling, Reading News Paper. Watching TV, Playing Cricket and football.

▼ **Languages**

- ✓ English – Speak fluently and read/write with good proficiency.
- ✓ Urdu – Speak fluently and read/write with good proficiency.
- ✓ Pashtu – native language

▼ **Recommendations**

1. Dr Farhana Maqbool, Associate Professor at Department of Microbiology, Hazara

University Mansehra, KPK Pakistan, E-mail: fairy_es11@yahoo.com , drfarhana@hu.edu.pk

2. Dr Zulfiqar ahmad Bhatti, Associate Professor at Department of Environmental Sciences, CUI Abbottabad Campus, Pakistan, Email: zabhatti@cuiatd.edu.pk Phone: (92)992-383591-6, (92)321-4083868
3. Dr Riaz Muhammad, Assistant Professor at Department of Microbiology, Abasyn University Peshawar, KPK Pakistan

I hereby declare that the information provided above is accurate and complete to the best of my knowledge. Other References and supporting documents are available upon request