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## BIOGRAPHICAL SKETCH

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**Dr. Muhammad Adnan Ashraf**

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DVM, RVMF, MPhil, PhD  
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### A. PERSONAL STATEMENT

I am currently working as Assistant Professor at Institute of Microbiology, University of Veterinary and Animal Sciences (UVAS), Lahore. I have research interest in bacteriology, mycology and food microbiology. I have experience of working as a Visiting Scientist under University of Pennsylvania, United States. Furthermore, I have hands-on experience for working actively in BSL-3 laboratories of UVAS for diagnostics and research activities. My areas on interest include characterization of microbial enzymes, antimicrobial resistance, food microbiology and public health. I serve scientific community as reviewer and editor as well. I am Associate Editor at *Critical Reviews in Microbiology* (IF: 7.2) and reviewer at international microbiology and interdisciplinary journals including *Archives of Microbiology*, *Canadian Journal of Infectious Diseases and Microbiology*, *Antibiotics*, *BioResources*, *Biocatalysis and Biotransformation*, *Phytotherapy Research* and *European journal of Pharmacology*.

### B. POSITIONS AND HONORS

#### Positions and Employment

Aug 2019 – To date	<b>Assistant Professor (TTS)</b> Institute of Microbiology, University of Veterinary and Animal Sciences, Lahore
April 2020 – To date	<b>Volunteer</b> Biosafety Level-3 Laboratory for Emerging Pathogens, Institute of Microbiology, University of Veterinary and Animal Sciences, Lahore
Oct 2016 – Apr 2017	<b>Visiting Scientist,</b> Fox Chase Cancer Center, Philadelphia, Pennsylvania, United States (Worked on research activities regarding alpha-amylase stability)
Mar – July 2015	<b>Teaching Assistant,</b> Institute of Microbiology, University of Agriculture, Faisalabad, Pakistan

#### Honors

2012-2018	Won HEC Indigenous MPhil leading to Ph.D scholarship
April 2020 – Nov 2020	Certificate of Appreciation from the Government of Punjab for the outstanding services in diagnosis of COVID-19 pandemic
Sep 28, 2020	Certificate of Appreciation from the Pakistan Veterinary Medical Council for the outstanding services in diagnosis of COVID-19 pandemic
Jan, 2023 onwards	Certified Professional in Biorisk management from IFBA, UK

### C. PUBLICATIONS (Book Chapter)

1. **Ashraf MA**, Mustafa BE, Wahaab A, Batool H, Said MB, Sevinc F, Stevenson NJ (2023). Conventional and Molecular Diagnosis of parasites, In: HM Rizwan and MS Sajid (Ed.), *Parasitism and Parasitic Control in Animals: Strategies for the Developing World*. Center for Agriculture and Bioscience International (CABI), Wallingford, United Kingdom, page 56-72, DOI: 10.1079/9781800621893.0004
2. Ashraf M, Mustafa BE, Rehman SU, Bashir MK, **Ashraf MA** (2019). Emergence of Antimicrobial Resistance, Causes, Molecular Mechanisms, and Prevention Strategies: A Bovine Perspective, In SO Sadashiv (Ed.), *Bovine Science - A Key to Sustainable Development*, 45-64, London, United Kingdom, IntechOpen. ISBN: 978-1-78985-605-7. 10.5772/intechopen.73743.

### Research Publications (IF: 50.6)

#### Research Articles

1. Beig, M. M., Ali, M. A., Javed, H., Yaqub, T., Mehmood, A. K., Nawaz, M., ... Raza S, **Ashraf MA**..... Anjum, A. A. (2024). Geospatial Dynamics of SARS-CoV-2 Variants during the Fifth Wave of COVID-19 in Punjab, Pakistan. *Advancements in Life Sciences*, 11(2), 493-499. (**Y-Category**)

2. Naeem A, **Ashraf MA**, Anjum AA, Sheikh AA, Ali T, Manzoor R (2023). *In-vitro* inhibitory activity of spice-derived essential oils for multi-drug resistant *Aspergillus fumigatus* recovered from poultry feed. *Ciência e Agrotecnologia*, 47, e005423 (IF: 1.1) **(X-Category)**
3. Rasheed MA, Raza S, Alonazi WB, **Ashraf MA**, Navid MT, Aslam I, Iqbal MN, Rehman SU, Riaz MI (2023). Design and Assessment of a Novel In-Silico Approach for Developing a Next-Generation Multi-Epitope Universal Vaccine Targeting Coronaviruses. *Microorganisms* 11(9) 2282. (IF: 4.5) **(W-Category)**
4. Aziz MW, Mukhtar N, Anjum AA, Mushtaq MH, **Ashraf MA**, Nasir, A, ... & Yaqub, T (2023). Genomic Diversity and Evolution of SARS-CoV-2 Lineages in Pakistan. *Viruses*, 15(7), 1450. (IF:4.7) **(W-Category)**
5. Ali H, Mahmood M, **Adnan M**, Afzal G, Perween S, Akhtar RW., ... & Almarzoug MH (2023). Comparative evolutionary and structural analyses of the TYRP1 gene reveal molecular mechanisms of biological functions in mammals. *Journal of King Saud University-Science*, 35(6), 102772. (IF:3.8) **(W-Category)**
6. **Ashraf MA**, Nawaz M, Asif A, Ali MA, Mehmood A, Aziz MW, Shabbir MZ, Mukhtar N, Shabbir MAB, Raza S and T Yaqub (2023). Temporal study of wastewater surveillance during September 2020 to March 2021: An estimation of COVID-19 patients in Lahore-Pakistan. *Environmental Science and Pollution Research*. 30, 80855–80862. (IF:5.4) **(W-Category)**
7. Nawaz M., **Ashraf MA**, Ali MA, Shabbir MZ, Shabbir MAB, Altaf I, ... & Yaqub, T. (2022). Renessans Helps in Early Clearance of SARS-CoV-2: In-Vivo Activity of the Iodine Complex in *Rhesus macaque*. *Life*, 12(9), 1424. (IF:3.2) **(W-Category)**
8. Raza S, Mukhtar N, Nawaz M, Ali MA, Shabbir MAB, **Ashraf MA**, Ali Z, Saleem MR, Latif R, and Yaqub T (2021). "A Cross-Sectional Survey of Knowledge, Attitude, and Practices of University Students in Pakistan Regarding COVID-19." *Frontiers in public health* 9. (IF:5.2) **(W-Category)**
9. Sher AA, **Ashraf MA**, Mustafa BE and Raza MM (2021), Epidemiological trends of foodborne *Campylobacter* outbreaks in the United States of America, 1998- 2016. *Food Microbiol.* (IF: 5.3) **(W-Category)**
10. Yaqub T, Nawaz M, Shabbir MZ, Ali MA, Altaf I, Raza S, Shabbir MA, **Ashraf MA**, Aziz SZ, Cheema SQ, Shah MB (2021) A longitudinal survey for genome-based identification of SARS-CoV-2 in sewage water in selected lockdown areas of Lahore city, Pakistan; a potential approach for future smart lockdown strategy, *Biomed Environ Sci.* (IF:3.5) **(X-Category)**
11. Altaf I, Nadeem MF, Hussain N, Nawaz M, Raza S, Ali MA, MAB Shabbir, **Ashraf MA** Hasan S, Matti N, Ashraf M, Ullah I, Fazal S..... Yaqub T (2021). An in vitro assessment of anti-SARS-CoV-2 activity of oral preparations of iodine complexes (RENESSANS), *Arch Microbiol.* (IF: 2.8) **(W-Category)**
12. **Ashraf MA**, Arshad MI, Rahman SU, Khan A (2018): Characterization of moderately thermostable  $\alpha$ -amylase-producing *Bacillus licheniformis* from decaying potatoes and sweet potatoes. *Bioresources*; 13(3):4931-4945. (IF: 1.5) **(W-Category)**
13. Shahzad S, **Ashraf MA**, Sajid M, Shahzad A, Rafique A, Mahmood MS (2018): Evaluation of synergistic antimicrobial effect of vitamins (A, B1, B2, B6, B12, C, D, E and K) with antibiotics against resistant bacterial strains. *Journal of Global Antimicrobial Resistance*; 13:231-236. (PMID: 29408383) (IF: 4.6) **(W-Category)**
14. Mustafa BE, Arshad M, Ahmad S, Ashraf M, **Ashraf MA**, Khan UH, Fayyaz A, Waheed A (2016): Experimental Trials of Foot-and-Mouth Disease Vaccines with Different Vegetable Oil Adjuvants in Goats under Field Conditions. *Pakistan Journal of Life and Social Sciences*; 14(3): 178-182. **(Y-Category)**

### **Review Articles**

15. Aiman S, **Ashraf MA**, Mustafa BE, Asif Z, Awan F, Azeem S. 2023. Bacterial and viral pathogens in drinking water sources in Pakistan: A recent perspective. *Journal of Environmental Health*, 86(4), 24-32. (IF:0.8) **(X-Category)**
16. Mustafa BE, **Ashraf MA**, Bashir MK, Batool H (2021). Mechanisms of antimicrobial resistance in *Pseudomonas aeruginosa* and a multi-pronged approach to combat its infection in veterinary science and public health: a review. *Intl J Agric Biol.* (March 2021 IF: 0.861) **(Y-Category)**

17. Musaddaq G, Shahzad N, **Ashraf MA**, Arshad MI (2018): Circulating liver-specific microRNAs as non-invasive diagnostic biomarkers of hepatic diseases in human. *Biomarkers*; 23(6): 1-7. (PMID: 30252499) (IF:2.6) (**W-Category**)
18. Azam M, Mohsin M, Ijaz H, Tulain UR, **Ashraf MA**, Fayyaz A, Abadeen ZU, Kamran Q (2017): Lactic acid bacteria in traditional fermented Asian foods. *Pakistan journal of pharmaceutical sciences*; 30(5):1803-1814. (PMID: 29084705) (IF: 0.8) (**Y-Category**)

### **Proceedings and Conferences**

Paper presentation in Scientific conferences: Oral Presentation on “Role of Veterinarians in preventing Zoonotic diseases” in “4th WPSA International (Virtual) One Health Conference” dated 9-10 September, 2021, Organized by UVAS, WPSA and PVMC

### **D. TRAININGS OBTAINED AND WORKSHOPS ORGANIZED**

Got more than 35 professional trainings and participated in more than 22 workshops as invited speaker or resource person

### **E. Editorial Board Member of Academic Journal**

1. Critical Reviews in Microbiology

### **F. Reviewer of Academic Journals**

1. Archives of Microbiology
2. Canadian Journal of Infectious Diseases and Microbiology
3. Antibiotics
4. Pathogens
5. Biomarkers
6. Current Research in Microbial Sciences
7. Journal of Basic Microbiology
8. Environmental Science and Pollution Research
9. Healthcare
10. Applied Science
11. BioResources
12. Biocatalysis and Biotransformation
13. European Journal of Pharmacology
14. Phytotherapy Research

### **G. MEMBERSHIP OF SCIENTIFIC SOCIETIES**

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| Scientific Memberships | <ol style="list-style-type: none"> <li>1. American Society for Microbiology (ID: 100140778)</li> <li>2. Pakistan Veterinary Medical Council (ID: RVMP/5797)</li> <li>3. Medical Microbiology and Infectious Diseases Society Pakistan (ID: 237/AS/19)</li> <li>4. Pakistan Biological Safety Association (ID: 975)</li> </ol> |
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### **H. SUPERVISION OF STUDENTS**

06 graduated, 05 MPhil Students under supervision