

# Faculty Profile Format – Institute of Microbiology (IOM)

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## 1. General Information

Full Name: **Dr. Aman Ullah Khan**

Designation/Position: Lecturer

Department/Section: Institute of Microbiology

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Phone (Official): \_\_\_\_\_

Date of Birth: 6<sup>th</sup> June 1987

## 2. Academic Qualifications

Degree	Field	University/Institute	Year	Country
Ph.D.	Microbiology (Veterinary Microbiology & zoonosis)	Freie University Berlin	2020	Germany
M.Phil.	Microbiology	UVAS, Lahore	2015	Pakistan
DVM	Veterinary Sciences	UVAS, Lahore	2011	Pakistan

## 3. Professional Experience

Position	Institute	Duration (Years)	From – To
Lecturer	Institute of Microbiology	13	6 <sup>th</sup> October 2011- to date

## 4. Research Contributions

### 4.1 Research Papers:

1. Saeed MA, Asif H, Ehtisham-ul-Haque S, **Khan AU**, Rehman Au, Rehman A, Rafique MK, Ahmed I, Qamar MF, Tomaso H, and El-Adawy H. (2025). Detection and risk factor analysis of avian colibacillosis associated with colistin-resistant Escherichia coli and Klebsiella pneumoniae. *Front. Vet. Sci.* 12:1612542. <https://doi.org/10.3389/fvets.2025.1612542>.
2. Nazir, S., Farooq, M., Khan, R., **Khan, A. U.**, Husnain, A., Hassan, M. A., El-Adawy, H., & Neubauer, H. (2025). Comparative Evaluation of Diagnostic Tests for Brucellosis in Humans and Animals: A Meta-Analytical Approach. *Veterinary Sciences*, 12(7), 638. <https://doi.org/10.3390/vetsci12070638>.

3. Alvi, M. H. A., Rehman, A., Jamil, T., Iqbal, M. Z., Durrani, A. Z., **Khan, A. U.**, Usman, M., Sauter-Louis, C., & Conraths, F. J. (2024). Impact of Farm Management Practices on Tick Infestation in Punjab's Livestock: A Comprehensive Epidemiological Study. *Animals*, 14(16), 2437. <https://doi.org/10.3390/ani14162437>.
4. Farooq, M., **Khan, A. U.**, El-Adawy, H., Melzer, F., Neubauer, H., Khan, I., & Ho, Y. S. (2024). A bibliometric analysis of brucellosis research (1991–2022): Research trends and hotspots. *South African Journal of Animal Science*, 54(3), 397-418. <https://doi.org/10.4314/sajas.v54i3.09>.
5. Qasim, S., **Khan, A. U.**, & Raza, A. (2024). Zoonotic diseases and antimicrobial resistance: a dual threat at the human-animal interface. *Archives of Veterinary Medicine*, 17(1), 5-17. <https://doi.org/10.46784/e-avm.v17i1.361>.
6. Zafar, S., Sarfraz, M. S., Ali, S., Saeed, L., Mahmood, M. S., **Khan, A. U.**, & Anwar, M. N. (2024). Recapitulation of Peste des Petits Ruminants (PPR) Prevalence in Small Ruminant Populations of Pakistan from 2004 to 2023: A Systematic Review and Meta-Analysis. *Veterinary Sciences*, 11(6), 280. <https://doi.org/10.3390/vetsci11060280>.
7. Atif, F. A., Ullah, S., Cossío-Bayúgar, R., Kashif, M., **Khan, A. U.**, & Wu, W.-F. (2023). Molecular Epidemiology, Seasonality and Phylogenetic Investigations of Anaplasma ovis in Small Ruminants from Diverse Agro-Climatic Regions of Punjab, Pakistan. *Microorganisms*, 11(10), 2430. <https://doi.org/10.3390/microorganisms11102430>.
8. Saeed, M. A., **Khan, A. U.**, Ehtisham-ul-Haque, S., Waheed, U., Qamar, M. F., Rehman, A. u., Nasir, A., Zaman, M. A., Kashif, M., Gonzalez, J.-P., & El-Adawy, H. (2023). Detection and Phylogenetic Analysis of Extended-Spectrum  $\beta$ -Lactamase (ESBL)-Genetic Determinants in Gram-Negative Fecal-Microbiota of Wild Birds and Chicken Originated at Trimmu Barrage. *Antibiotics*, 12(9), 1376. <https://doi.org/10.3390/antibiotics12091376>.
9. Akhtar, K., Ahmed, I., Tipu, M. Y., Yaqub, T., Shahid, M., Rehman, A. U., Ahmad, M. Z., Ghani, A., **Khan, A. U.**, Rehman Rafie, A., Rafique, M. K., Saadullah, M., Kashif, M., & Aslam, A. (2023). Molecular identification and infection pathology of *Mycobacterium* spp. in captive wild animals in Pakistan. *Journal of Infection in Developing Countries*, 17(8), 1107-1113. <https://doi.org/10.3855/jidc.17287>.
10. Zeeshan, M. A., Ali, S., Ahmed, I., Rehman, A. U., Rafique, M. K., Nasir, A., **Khan, A. U.**, Kashif, M., Mertns-Scholz, K., Arshad, M. I., Ehtisham-Ul-Haque, S., & Neubauer, H. (2023). Sero-epidemiological study of zoonotic bacterial abortifacient agents in small ruminants. *Frontiers in Veterinary Science*, 10, 1195274. <https://doi.org/10.3389/fvets.2023.1195274>.
11. Saeed, M. A., Saqlain, M., Waheed, U., Ehtisham-Ul-Haque, S., **Khan, A. U.**, Rehman, A. U., Sajid, M., Atif, F. A., Neubauer, H., & El-Adawy, H. (2023). Cross-Sectional Study for Detection and Risk Factor Analysis of ESBL-Producing Avian Pathogenic *Escherichia coli* Associated with Backyard Chickens in Pakistan. *Antibiotics* (Basel, Switzerland), 12(5), 934. <https://doi.org/10.3390/antibiotics12050934>.
12. Saeed, M. A., Waheed, U., Ehtisham-Ul-Haque, S., **Khan, A. U.**, Kashif, M., Qamar, M. F., Ghafoor, A., Saqlain, M., & Asghar, J. (2023). Incidence and molecular characterization of extended-spectrum beta-lactamase (ESBL)-producing *Salmonella enterica* and *Escherichia coli* of avifauna origin in Pakistan. *Polish journal of veterinary sciences*, 26(1), 47-55. <https://doi.org/10.24425/pjvs.2023.145006>.
13. Ali M, Avais M, Naheed R, Jamal MA, Hasni MS, Ahmad M, Khan MA, Baloch S, **Khan AU**, Khan S, Aqib AI (2023). Synergy in penicillin, cephalosporin, amphenicols, and aminoglycosides against MDR *S. aureus* isolated from Camel milk. *Brazilian Journal*

of Pharmaceutical Sciences. Jan 6:58. <https://doi.org/10.1590/s2175-97902022e20324>.

14. Idrees A, Chaudhary ZI, Younus M, Anjum A, Naeem MA, et al. (2022). Prevalence of Black Quarter in Association with Pathomorphological Alterations in Affected Tissues at Different Zones of Punjab-Pakistan. *Adv. Life Sci.* 9(4): 504-509. <http://dx.doi.org/10.62940/als.v9i4.1461>.
15. Atif, F. A., Abbas, R. Z., Mehnaz, S., Qamar, M. F., Hussain, K., Nazir, M. U., Zaman, M. A., **Khan, A. U.**, & Said, M. B. (2022). First report on molecular surveillance based on duplex detection of *Anaplasma marginale* and *Theileria annulata* in dairy cattle from Punjab, Pakistan. *Tropical animal health and production*, 54(2), 155. <https://doi.org/10.1007/s11250-022-03158-y>.
16. Hassan, L., Ali, S., Syed, M. A., Shah, A. A., Abbasi, S. A., Tabassum, S., Saeed, U., Melzer, F., **Khan, A. U.**, El-Adawy, H., & Neubauer, H. (2022). Risk Factors for Acute Brucellosis in Patients on the Day of Admission at Selected Hospitals of Abbottabad, Pakistan. *Frontiers in public health*, 9, 669278. <https://doi.org/10.3389/fpubh.2021.669278>.
17. Farooq, M., **Khan, A. U.**, El-Adawy, H., Mertens-Scholz, K., Khan, I., Neubauer, H., & Ho, Y. S. (2022). Research Trends and Hotspots of Q Fever Research: A Bibliometric Analysis 1990-2019. *BioMed Research International*, 2022, 9324471. <https://doi.org/10.1155/2022/9324471>.
18. Jamil, T., **Khan, A. U.**, Saqib, M., Hussain, M. H., Melzer, F., Rehman, A., Shabbir, M. Z., Khan, M. A., Ali, S., Shahzad, A., Khan, I., Iqbal, M., Ullah, Q., Ahmad, W., Mansoor, M. K., Neubauer, H., & Schwarz, S. (2021). Animal and Human Brucellosis in Pakistan. *Frontiers in public health*, 9, 660508. <https://doi.org/10.3389/fpubh.2021.660508>.
19. **Khan, A. U.**, Melzer, F., Sayour, A. E., Shell, W. S., Linde, J., Abdel-Glil, M., El-Soally, S. A. G. E., Elschner, M. C., Sayour, H. E. M., Ramadan, E. S., Mohamed, S. A., Hendam, A., Ismail, R. I., Farahat, L. F., Roesler, U., Neubauer, H., & El-Adawy, H. (2021). Whole-Genome Sequencing for Tracing the Genetic Diversity of *Brucella abortus* and *Brucella melitensis* Isolated from Livestock in Egypt. *Pathogens* (Basel, Switzerland), 10(6), 759. <https://doi.org/10.3390/pathogens10060759>.
20. Akram, M. Z., Murtaza, A., Kashif, M., Syed, E. U. H., **Khan, A. U.**, Ahmad, W., ... & Shahid, Z. (2021). Peeping into the emerging threat of novel influenza D virus: A review. *Agricultural Reviews*, 42(3), 276-283. DOI: [10.18805/ag.R-190](https://doi.org/10.18805/ag.R-190).
21. Akram, M. Z., **Khan, A. U.**, Ali, B. S., Shahid, S., & Batool, A. (2021). Epidemiosurveillance of *Brucella* infection in humans, non-ruminants and wildlife from Pakistan perspective (2000-2020). *Journal of the Hellenic Veterinary Medical Society*, 72(3), 3117-3126. doi:<https://doi.org/10.12681/jhvms.28501>.
22. Anwar, M. N., Guo, S., Xin, W., Hameed, M., Wahaab, A., Ma, X., **Khan, A. U.**, Rahman, S. U., Shao, D., Li, Z., Liu, K., Li, B., Qiu, Y., Ma, Z., & Wei, J. (2021). Adaptation of a live-attenuated genotype I Japanese encephalitis virus to vero cells is associated with mutations in structural protein genes. *Virus research*, 292, 198256. <https://doi.org/10.1016/j.virusres.2020.198256>.
23. **Khan, A. U.**, Melzer, F., Hendam, A., Sayour, A. E., Khan, I., Elschner, M. C., Younus, M., Ehtisham-Ul-Haque, S., Waheed, U., Farooq, M., Ali, S., Neubauer, H., & El-Adawy, H. (2020). Seroprevalence and Molecular Identification of *Brucella* spp. in Bovines in Pakistan-Investigating Association with Risk Factors Using Machine Learning. *Frontiers in Veterinary Science*, 7, 594498. <https://doi.org/10.3389/fvets.2020.594498>.
24. Saeed, U., Ali, S., Latif, T., Rizwan, M., Attaullah, Iftikhar, A., Ghulam Mohayud Din Hashmi, S., **Khan, A. U.**, Khan, I., Melzer, F., El-Adawy, H., & Neubauer, H. (2020).

Prevalence and Spatial Distribution of Animal Brucellosis in Central Punjab, Pakistan. International Journal of Environmental Research and Public Health, 17(18), 6903. <https://doi.org/10.3390/ijerph17186903>.

25. **Khan, A. U.**, Sayour, A. E., Melzer, F., El-Soally, S. A. G. E., Elschner, M. C., Shell, W. S., Moawad, A. A., Mohamed, S. A., Hendam, A., Roesler, U., Neubauer, H., & El-Adawy, H. (2020). Seroprevalence and Molecular Identification of *Brucella* spp. in Camels in Egypt. *Microorganisms*, 8(7), 1035. <https://doi.org/10.3390/microorganisms8071035>.

26. Mehmood, A., Usman, M., Sharif, M., **Khan, A.**, & Umar, S. (2020). Detection and phylogeny of infectious bursal disease virus (IBDV) during field outbreaks in broilers. *Pakistan J. Zool*, 52(2), 659-667. DOI: <https://dx.doi.org/10.17582/journal.pjz/20190210070218>.

27. **Khan, A. U.**, Shell, W. S., Melzer, F., Sayour, A. E., Ramadan, E. S., Elschner, M. C., Moawad, A. A., Roesler, U., Neubauer, H., & El-Adawy, H. (2019). Identification, Genotyping and Antimicrobial Susceptibility Testing of *Brucella* spp. Isolated from Livestock in Egypt. *Microorganisms*, 7(12), 603. <https://doi.org/10.3390/microorganisms7120603>.

28. **Khan, A. U.**, Melzer, F., El-Soally, S. A. G. E., Elschner, M. C., Mohamed, S. A., Sayed Ahmed, M. A., Roesler, U., Neubauer, H., & El-Adawy, H. (2019). Serological and Molecular Identification of *Brucella* spp. in Pigs from Cairo and Giza Governorates, Egypt. *Pathogens*, 8(4), 248. <https://doi.org/10.3390/pathogens8040248>.

29. Saddique, A., Ali, S., Akhter, S., Khan, I., Neubauer, H., Melzer, F., **Khan, A. U.**, Azam, A., & El-Adawy, H. (2019). Acute Febrile Illness Caused by *Brucella Abortus* Infection in Humans in Pakistan. *International Journal of Environmental Research and Public Health*, 16(21), 4071. <https://doi.org/10.3390/ijerph16214071>.

30. Saeed, U., Ali, S., Khan, T. M., El-Adawy, H., Melzer, F., **Khan, A. U.**, Iftikhar, A., & Neubauer, H. (2019). Seroepidemiology and the Molecular Detection of Animal Brucellosis in Punjab, Pakistan. *Microorganisms*, 7(10), 449. <https://doi.org/10.3390/microorganisms7100449>.

31. Haider, S., Maqbool, A., Pervez, T., Parveen, S., Ahmad, A., Iqbal, Z., ... & Umar, S. (2019). Seroprevalence of *Mycoplasma gallisepticum* in Commercial Poultry Birds Showing Respiratory Clinical Signs in Chakwal District, Pakistan. *Pakistan J. Zool*, 51(5), 1-4. DOI: <http://dx.doi.org/10.17582/journal.pjz/2019.51.5.sc7>.

32. Nida Zia, N. Z., Ayesha Maqbool, A. M., Muhammad Safdar, M. S., Umm-I-Habiba, U. I. H., Altaf Mehmood, A. M., Muhammad Usman, M. U., ... & Sajid Umar, S. U. (2019). Detection and phylogeny of fowl adenovirus associated with hydropericardium hepatitis syndrome in broilers. DOI: <10.17582/journal.pjz/2019.51.6.2091.2098>.

33. Mubeen H, Khan I, Saleem MS, Akhtar R, Ali S, Saqib M, **Khan AU**, Umar S (2018). Brucellosis in Mirpur, Azad Kashmir Pakistan: a Livestock threat for neighboring zones. *Med. Weter.* 74; (7): 449-451. DOI: <dx.doi.org/10.21521/mw.6004>.

34. Muhammad, S. A., Shakoor, A., Younus, M., Asif, A. R., Abbas, T., Arshad, M., ... Akhter, M. S. (2017). First finding of patent urachus with omphalophlebitis and omphaloarteritis in Pakistani Neeli-Ravi buffalo calf and its successful surgical rectification: Case report. *Buffalo Bulletin*, 36(3), 569-571. <http://kuojs.lib.ku.ac.th/index.php/BufBu/article/view/659>.

35. Sajid, M., Younus, M., Khan, M., Anjum, A. A., Haque, S. E. U., Rafique, M., ... & **Khan, A. U.** (2017). Effects of lead on hematological and biochemical parameters in Lohi sheep grazing around a sewerage drain. *Pak Vet J*, 37(4), 450-454. [https://www.pvj.com.pk/pdf-files/37\\_4/450-454.pdf](https://www.pvj.com.pk/pdf-files/37_4/450-454.pdf).

36. Mehmood, K., Zhang, H., Sabir, A. J., Abbas, R. Z., Ijaz, M., Durrani, A. Z., Saleem, M. H., Ur Rehman, M., Iqbal, M. K., Wang, Y., Ahmad, H. I., Abbas, T., Hussain, R., Ghori, M. T., Ali, S., **Khan, A. U.**, & Li, J. (2017). A review on epidemiology, global prevalence and economical losses of fasciolosis in ruminants. *Microbial pathogenesis*, 109, 253–262. <https://doi.org/10.1016/j.micpath.2017.06.006>.
37. Jaleel, S., Younus, M., Idrees, A., Arshad, M., **Khan, A. U.**, Ehtisham-Ul-Haque, S., Zaheer, M. I., Tanweer, M., Towakal, F., Munibullah, Tipu, M. Y., Sohail, M. L., & Umar, S. (2017). Pathological Alterations in Respiratory System During Co-infection with Low Pathogenic Avian Influenza Virus (H9N2) and Escherichia Coli in Broiler Chickens. *Journal of Veterinary Research*, 61(3), 253–258. <https://doi.org/10.1515/jvetres-2017-0035>.
38. Urva, Shafique, H., Jamil, Y., Haq, Z. U., Mujahid, T., **Khan, A. U.**, Iqbal, M., & Abbas, M. (2017). Low power continuous wave-laser seed irradiation effect on *Moringa oleifera* germination, seedling growth and biochemical attributes. *Journal of photochemistry and photobiology. B, Biology*, 170, 314–323. <https://doi.org/10.1016/j.jphotobiol.2017.04.001>.
39. Younus, M., Abbas, T., Zafar, M., Raza, S., **Khan, A.**, Khan, I., ... & Saleem, G. (2017). Quantification of enrofloxacin residues in broiler chicken tissues using competitive enzyme-linked immunosorbent assay. *Indian J Anim Sci*, 87, 659-661. DOI: [10.56093/ijans.v87i5.70280](https://doi.org/10.56093/ijans.v87i5.70280).
40. Younus, M., Abbas, T., Zafar, M., Raza, S., **Khan, A.**, Saleem, A. H., ... & Saleem, G. (2016). Assessment of heavy metal contamination in raw milk for human consumption. *South African Journal of Animal Science*, 46(2), 166-169. <https://doi.org/10.4314/sajas.v46i2.7>.
41. Iqbal, M., Abbas, M., Arshad, M., Hussain, T., **Ullah Khan, A.**, Masood, N., ... & Ahmad Khera, R. (2015). Short Communication Gamma Radiation Treatment for Reducing Cytotoxicity and Mutagenicity in Industrial Wastewater. *Polish Journal of Environmental Studies*, 24(6). DOI: <https://doi.org/10.15244/pjoes/59233>.

#### 4.2 Books/Chapters:

1. Muhammad RAMEEZ, **Aman Ullah KHAN**, Ali RAZA. Breakthroughs In Disease Prevention and Treatment, Current Studies in Health and Life Sciences 2023, ISBN 978-625-6959-18-7. December **2023** ISRES Publishing, Editors Prof. Dr. Mehmet OZASLAN & Dr. Muhammad SAFDAR.
2. Arshad M., Bano I., Younus M., Khan A., Rahman A. (2018). Health Concerns Associated with Biofuel Production. In: Arshad M. (eds) Perspectives on Water Usage for Biofuels Production. Springer, Cham. DOI. [https://doi.org/10.1007/978-3-319-66408-8\\_5](https://doi.org/10.1007/978-3-319-66408-8_5)
3. Qamar A.Y., Khan A.U., Jamil A., Abubakar M. (2015). Biotechnology and Animal Reproduction. In: Abubakar M., Saeed A., Kul O. (eds) The Role of Biotechnology in Improvement of Livestock. Springer, Berlin, Heidelberg. DOI. [https://doi.org/10.1007/978-3-662-46789-3\\_1](https://doi.org/10.1007/978-3-662-46789-3_1)

#### 4.3 Conferences:

1. "Serological and molecular identification of *Brucella* spp. in Pigs from Cairo and Gizeh governorates, Egypt". **A. U. Khan**, F. Melzer, M. Elschner, H. Neubauer, and H. El-Adawy, at 6th Joint Conference of the DGHM & VAAM, Leipzig, 8-11 March 2020.

2. "Isolation, genotyping and antimicrobial susceptibility testing of *Brucella* spp. isolated from livestock in Egypt". **A. U. Khan**, F. Melzer, H. El-Adawy, W. Shell, M. Elschner, U. Roesler, H. Neubauer, at Junior Scientist Symposium, Jena, Germany, September 25-27, 2019.
3. "Prevalence of bovine brucellosis and assessment of associated risk factors in central Punjab, Pakistan". **A. U. Khan**, H. El-Adawy, I. Khan, F. Melzer, M. Elschner, U. Roesler, H. Neubauer. One Health Junior Scientist Symposium, Insel Reims, Greifswald-Germany, September 24-26, 2018.
4. "Effect of *Azadirachta Indica* (Neem leaves) on hematological and biochemical profile in commercial broiler chickens." Muhammad Younus, Zahid Jawad, Asif Idrees, Sannan Raza, **Amanullah Khan**, and Mujahid Zafar. International Drug Discovery & Therapy Board Congress" August 22-25, 2016.
5. "Differential Diagnosis of Malaria and Dengue Fever on the Basis of Clinical Findings and Laboratory Investigations". **Aman Ullah Khan**, Muhammad Younus, Aqil Ijaz, Muti-Ur Rehman Khan, Sayyed Aun Muhammad, Asif Idrees, Sanan Raza, and Amar Nasir. 18th International Conference on Pathology and Microbiology, Dubai, UAE, December 23-24, 2015.
6. "Surgical treatment of basal cell carcinoma presents at the caudo-ventral aspect of the left mandible in the dromedary camel". S.A. Muhammad, A. Shakoor, M. Younus, T. Abbas, A. Nasir, **A. Khan**, M.M. Awais, M.R. Hameed & M.S. Akhter. International Symposium on Camel Management & Reproduction, Sindh Agriculture University, Tandojam, Pakistan, December 23-24, 2015.
7. "Residues of Enrofloxacin in tissues of freshly slaughtered broiler chickens available in the local market of Jhang, Pakistan". M. Younus, T. Abbas, S. Raza, **A. Khan**, M. Zafar, M. Aslam & A. Idrees. Drug Discovery & Therapy World Congress, Boston, USA, July 22-25, 2015.
8. "Comparison of hCG and GnRH in Enhancing Pregnancy Rate of Non-Lactating Cycling Brood Mares". Sanan Raza, Muhammad Younus, Ahmad Yar Qamar, Tariq Abbas, Hamayun Khan, and **Aman Ullah Khan**. ICVBS 2015: 17th International Conference on Veterinary and Biomedical Sciences, Istanbul, Turkey, February 16 - 17, 2015.

## 5. Trainings

### 5.1 Trainings Received

1. Certificate of Participation "Two-day hands-on Training Workshop on NGS Data Analysis" organized by the Department of Parasitology, UVAS Lahore, dated 27<sup>th</sup> June- 28<sup>th</sup> June, 2024.
2. Certificate of Participation "Two Days Hands-on Training Workshop on Building the Capacity of Laboratory Professionals in Bio-Risk Assessment: The New WHO Approach" Organized by Department of Biosciences, Shifa Tameer-e-Millat University, Islamabad, and Institute of Microbiology, UVAS Lahore on December 08-09, 2023.
3. Completed "Three days of training on Advancing Teaching Excellence, Strategies for Effective Higher Education Instruction, and Professional Development." Organized by Punjab Higher Education Commission (PHEC) at Veterinary Academy UVAS, Lahore, dated September 19-21, 2023.

4. Completed "Two Days Complimentary Session of Biorisk Management" Organized by ABM at University of Veterinary and Animal Sciences (Jhang Campus), dated May 17-18, 2023.
5. Certificate of Participation in workshop entitled "4-Days virtual training on safe and secure sample collection and transportation" at University of Veterinary and Animal Sciences (Jhang Campus), March 25-28, 2022.
6. Attended two-day workshop on "Promoting research excellence in academics across Pakistan" at HEC, Islamabad, February 01-02, 2022.
7. Certificate of Participation in workshop entitled "5-Day virtual training on Biorisk Management" at University of Veterinary and Animal Sciences (Jhang Campus), January 10-14, 2022.
8. Participation in Workshop "Project and Time Management" at Friedrich-Loeffler-Institut, Jena, August 05-06, 2020.
9. Participated in a 5-day workshop on Cascading of In-services short-term training of College Faculty, held at University of Veterinary and Animal Sciences (Jhang Campus), 08-12th August, 2016.
10. Participated in a 3-day HEC-AIT Cascading Workshop on "Ensuring Training Effectiveness" held at the University of Veterinary and Animal Sciences (Jhang Campus) on 11-13 September 2015.
11. Participated in a 2-day workshop on "Faculty Professional Training Program" by UVAS and HEC, held at University of Veterinary and Animal Sciences (Jhang Campus) on June 8-10, 2015.
12. Participated in a 2-day workshop "Diagnosis of Brucellosis by Indirect ELISA" held at the Department of Microbiology, FVS, UVAS, Lahore, November 19-20, 2014.
13. 45 days research training on "Serodiagnosis, culturing and molecular detection of *Brucella* in OIE (World Organization for Animal Health) reference lab. for Brucellosis" at Institute of Bacterial Infections & Zoonoses, Frederic Loeffler Institute, Jena, Germany from 01.10.2013 to 14.11.2013.
14. Participated in a Three-day workshop on the Application of Molecular Diagnostics for Livestock-Based Food Pathogens at the Department of Biological Sciences, F.C. College University, Lahore, from Wednesday, 19 June to Monday, 24 June 2013.
15. Participated in a Three-day Workshop on "Data Analysis" at Bio-statistical Consulting Center, UVAS, Lahore from 20th May to 22nd May, 2013.
16. Participated in a Two-day Workshop on "Use of EndNote X5 for Biomedical Researchers" from 5th to 6th April, 2013, at the University of Veterinary and Animal Sciences (Jhang Campus).
17. Participated in five-day hands-on training on "Bio-statistics & Developing Research Proposals" at the Center for Educational Policy and Development, UVAS, Lahore, from 6th to 10th August, 2012.
18. Participated in "Professional Competency Enhancement" Workshop for Teachers at Center for Educational Policy and Development, UVAS, Lahore from 20th to 24th Feb., 2012.
19. Participated in "National Necropsy Workshop" organized by Department of Pathology, University of Veterinary & Animal Sciences, Lahore, in collaboration with HEC, Pakistan, from 14th to 19th September, 2011.
20. Four months of research training on "Effect of UV light on DNA integrity of Buffalo Bull spermatozoa" at ARP, ASI, NARC, Islamabad, Feb.22 to June 10, 2011.
21. Four months of research training on "Effect of Anti-oxidant in Extender on motion characteristics & DNA fragmentation of Buffalo Bull spermatozoa" at ARP, ASI, NARC, Islamabad, Feb.22 to June 10, 2011.

22. Zoo Animal Enclosure Design, Pet's Welfare from March to September, 2009, held at the Institute of Continuing Education & Extension UVAS, Lahore.

## 5.2 Trainings Conducted

1. Organized and participated in the National Workshop "Molecular Identification of Pathogens of Birds" at the University of Veterinary and Animal Sciences Lahore (Jhang Campus), dated April 16, 2025.
2. Certificate of Appreciation as Keynote Speaker in a one-day seminar "Biorisk Management" held on August 15, 2023, at The Sahara College, Narowal.
3. Certificate of Appreciation by the Association for Biorisk Management, Pakistan, for Organizing Two Days of Refresher Training on BRM at the Microbiology laboratory, University of Veterinary and Animal Sciences (Jhang Campus), dated July 20-21, 2023.
4. Certificate of participation as Resource Person in a workshop entitled "One Day Hands-on Training on Biosafety and Biosecurity" at Al-Shifa Institute of Health Sciences, Narowal, June 01, 2023.
5. Organized "3-day BRM Basic training" at Pathology Lab. University of Veterinary and Animal Sciences (Jhang Campus), November 07-09, 2022.
6. Organized a One-day training seminar on "Prevalence, diagnosis, prevention, and Control strategies in its dual use" held at the University of Veterinary and Animal Sciences (Jhang Campus) on April 7, 2014.

## 6. Memberships & Accreditations

1. International Federation of Biosafety Associations "Professional Certification in Biorisk Management"-Canada (9<sup>th</sup> May 2024 to 8<sup>th</sup> May 2029)
2. Pakistan Veterinary Medical Council (lifetime)
3. American Society for Microbiology-USA (2019- to date)
4. Microbiology Society-UK (2019 to date).
5. UVAS 24/7 Extension Services team (2013- to date)
6. UVAS Alumni Association (2011- to date)
7. Pakistan Agriculture Scientists Forum (2010-2011)

## 7. Services & Contributions

- Public Sector: \_\_\_\_\_
- Private Sector: Veterinary services to farmers
- Community Services:
  1. Certificate of Honor by Vet Crescent Society for arranging a Free Veterinary treatment, deworming, and vaccination camp at Jhang in March 2024.
  2. Faculty Convener "Vet Crescent Society University of Veterinary and Animal Sciences (Jhang Campus)" dated December 2023.
  3. Shield of Appreciation by Vet Crescent Society for arranging a Free Veterinary treatment, deworming, and vaccination camp at Jhang in March 2024.

4. Certificate of appreciation for "Outstanding Veterinary and Community Services" during UVAS Flood relief Campaign 2022 by Lt. Gen. (Retd.) Khalid Maqbool at UVAS Lahore in November 2022.
5. Certificate of Appreciation by Four Paws International in Flood Disaster Relief in Aug-Sep, 2010.
6. Certificate of Appreciation by WSPA & VCO Pakistan for Flood Relief during the 2010 Pakistan floods.
7. Certificate of Appreciation by Muhammad Shehzad Sharif (CM Punjab) for Flood Relief Services 2010.
8. Certificate of Participation in "Free deworming Camp" on 14th March, 2010 by Engro Dairy Hub.
9. Certificate of Participation for "Free Vaccination Camp at Sarja Marja (PDDC Community Farm) in collaboration with Vet Crescent Society on 11th Jan, 2010.
10. Certificate of Appreciation for Eid-camp working as the Camp in charge by Vet Crescent in 2009.
11. Shield of appreciation for working as General Secretary of Vets Blood Donor Society, UVAS, Lahore.

## **8. Awards & Recognitions**

1. Performance Appraisal Letter from Principal University of Veterinary and Animal Sciences (Jhang Campus) for Outstanding Administrative Contribution (B& W Department) 2023, Dated 05.01.2023
2. Merit Scholarship for PhD from Islamic Development Bank, Jeddah, Saudi Arabia, (2017-2020).
3. China Scholarship Council merit scholarship holder for PhD in Huazhong Agricultural University, Wuhan, China (2016).
4. Letter of Appreciation from Principal, University of Veterinary and Animal Sciences (Jhang Campus) for outstanding performance and arrangement of Spring Festival held on 26-31 March 2012.
5. Letter of Appreciation on getting 3rd position in Final Year DVM Internship Program, 2011.
6. University Merit Scholarship throughout DVM (2006-2011).
7. Selected as Class Representative & Chief Proctor during DVM (2007-2011).
8. Certificate of Merit for securing 1<sup>st</sup> position in SSC examinations in District Narowal (2003).

## **9. Administrative Roles**

1. Hostel Superintendent, UVAS Lahore (15 Sep. 2025 to date)
2. Associate Senior Tutor at College of Veterinary & Animal Sciences (Sub-Campus UVAS), Jhang, Pakistan (March 2024 to June 2025).
3. In-charge B & W section, University of Veterinary and Animal Sciences (Jhang Campus), March 2021- June 2025.
4. Member "Emergency Response Committee (ERC)", UVAS Lahore (2022- to date).
5. QEC Focal Person, Department of Allied/Social Sciences, University of Veterinary and Animal Sciences (Jhang Campus) (December 2013-August 2016).
6. Member Disciplinary Committee, University of Veterinary & Animal Sciences, Lahore (Jhang Campus), 2012-2015.
7. Transport Officer, University of Veterinary & Animal Sciences, Lahore (Jhang Campus), 2013-2016
8. Resident Tutor, University of Veterinary & Animal Sciences, Lahore (Jhang Campus), 2012-2016

## 10. Research Interests & Future Plans

### Research Interests

1. Zoonotic diseases and antimicrobial resistance at the human-animal interface.
2. Molecular epidemiology, diagnostics, and genotyping of infectious pathogens.
3. One Health approaches for surveillance and control of emerging zoonotic diseases.

### Future Plans

1. Development of indigenous vaccines and diagnostic tools for zoonotic pathogens.
2. Establishment of a One Health-based zoonotic disease surveillance and AMR monitoring system.
3. Translating research into evidence-based policies for livestock health and public health improvement.

## 11. Additional Information

- Languages: English, Urdu, German (Basic)

- Reviewer:

1. Tropical medicine and infectious disease (MDPI)
2. Tropical animal health and production
3. Pathogens (MDPI)
4. Microorganisms (MDPI)
5. Life (MDPI)
6. Infectious Diseases of Poverty
7. Frontiers in Veterinary Science
8. Frontiers in Public Health
9. International Journal of Environmental Research and Public Health (MDPI)
10. Antibiotics (MDPI)
11. Veterinary Science (MDPI)
12. PLOS ONE
13. Scientific Reports (Springer Nature)
14. Discover Life (Springer Nature)

- Editorial Roles: Review Editor in Veterinary Infectious Diseases, Journal of Frontiers in Veterinary Science.