

DR Muhammad Usman

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Date and place of birth: 15-01-1986, Jhang Punjab, Pakistan



Profile Summary

PhD Veterinary Anatomist with 10+ years of experience in teaching and research, specializing in Anatomy, Histology and Histological techniques, with significant contributions to academic administration and institutional development.

Education

- **PhD Anatomy** – University of Agriculture Faisalabad (2025), CGPA: 3.80/4.00
 - **MPhil Anatomy** – University of Agriculture Faisalabad (2011), CGPA: 3.56/4.00
 - **DVM** – University of Agriculture Faisalabad (2009), CGPA: 3.14/4.00
 - **F.Sc**– Faran Model College Jhang (2004), 754/1100
 - **S.S.C** – Chenab College Jhang (2002), 598/850
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Professional Experience

- **Assistant Professor (OPS)** 04-12-2025 – Present
Faculty of Veterinary Sciences, Bahauddin Zakariya University Multan, Pakistan
 - **Lecturer** March 2024 to 04-12-2025
Faculty of Veterinary Sciences, Bahauddin Zakariya University Multan, Pakistan
 - **Lecturer** October 2016 to March-2024
College of Veterinary Sciences, Bahauddin Zakariya University, Sub campus Layyah
 - **Lecturer** April-2013 to October-2016
Gomal College of Veterinary Sciences, Gomal University, Dera Ismail Khan, Pakistan
 - **Veterinary Officer (Health),** May-2011 to April-2013
Department of Livestock and Dairy Development, Govt of Punjab, Pakistan
 - 4 Month work experience in Friesland Campina **Engro** Pakistan Limited
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Administrative Experience

- **Member purchase committee** Department of Biosciences, Faculty of Veterinary Sciences
Bahauddin Zakariya University Multan, Pakistan
- **Secretary Admission committee** Department of Biosciences, Faculty of Veterinary Sciences
Bahauddin Zakariya University Multan, Pakistan
- **In-charge Academic affairs** College of Veterinary Sciences, BZU, Bahadur sub-campus Layyah w.e.f. 08-12-2017 up to 25-01-2019.
- **Internship advisor,** College of Veterinary Sciences, BZU, Bahadur sub-campus Layyah w.e.f. 17-04-2017 up to 25-01-2019.
- **Hostel Assistant Superintendent, IJAZ Hall, BZU, Bahadur sub-campus Layyah** w.e.f. 03-11-2016 up to 25-01-2019
- **Hostel warden** Hostel No. 3 (City campus), Gomal University, Dera Ismail Khan, Pakistan w.e.f. 04-9-2014 to 05-10-2016

Areas of interest and skills:

- Anatomy/Histology/Biology

Teaching Contributions

- Teaching anatomy, histology and embryology to undergraduate and postgraduate students.

Students supervised (MPhil)

Muhammad Sufyan

Thesis title: Evaluation of Plant-Derived Activated Vitamin D₃ (1,25-Dihydroxyvitamin D₃) in Modulating Mineral Metabolism, Growth Performance, Bone Quality, and Immune Response in Broiler"

Areeb Ahmer

Thesis title: Individual and Combined Effects of Dietary Probiotic and Tributyrin Supplementation on Growth Performance, Gut Health, Apparent Ileal Digestibility, Carcass Traits, and Economics in Broilers Fed Antibiotic-Free Diets"

Memberships

- Life Member, Pakistan Veterinary Medical Council (PVMC), Pakistan

Publications

Muhammad Usman, Anas Sarwar Qureshi, Anas Sarwar Qureshi, Rehmat Ullah Shahid, Farrah Deebe. (2025). Impact of biochar and organic acid-enriched diet on growth performance and intestinal histomorphometry in Japanese quail (*Coturnix coturnix japonica*). *Pakistan Veterinary Journal*, 45(1), 352–359.

Haris Nisar, Nazia Gul, Rabia Zafar, **Muhammad Usman**. (2026). MicroRNA-146A as a potential biomarker for breast cancer diagnosis and prognosis in Lahore's female population. *Annual Methodological Archive Research Review*, 4(2), 281–297. <https://doi.org/10.66021/>

Jawad Zahir, **Muhammad Usman**, Muhammad Abdullah Nasir, Rizwan Haider, Zia Ullah Shah.(2026).Genomic and Molecular Characterization of Novel Lytic Bacteriophages Infecting Multidrug-Resistant *Pseudomonas aeruginosa*, *Indus Journal of Bioscience Research* 4(3.1), 51-60. <https://doi.org/10.70749/ijbr.v4i3.1.3315>

Mubashir Naveed, **Muhammad Usman**, Dr. Samiyah Tasleem, Rabail Urooj (2026) impact of aquatic pollution on physiological, biochemical, and morphological responses in animals Vol. 3 No. 5 (2026): *International Journal of Advanced Research [Volume 3, Issue 5 September 2026]*

Afra, Nain Tara Bukhari, Muhammad Abdullah Nasir, Obaid Hayat, Muska Kalim, **Muhammad Usman**, Isbah Imtiaz Qazi, Faiza Rashid (2026) Genomic Investigation of Carbapenem-Resistant Hypervirulent *Klebsiella pneumoniae*: Resistance, Virulence, and Genetic Diversity. *Indus Journal Of Bioscience Research*, 4(3.1), 70-75. <https://doi.org/10.70749/ijbr.v4i3.1.3354>

Muhammad Tayyib Khan, Ashar Mahfooz, Mudasir Nazar Muhammad Shahid, Kashif Hussain, Asghar Abbas, Murtaz ul Hasan, Naheed Bano, Muhammad Mustfa Jafar, Shafique Ahmad, Kasim Sakran Abass, **Muhammad Usman**, Muhammad Nadeem (2026) Effects of Ivermectin and Albendazole on Gastrointestinal Tract Nematode parasites of Domestic Pigeon (*Columba Livia*) in Faisalabad. *The Kashmir Journal of Academic Research and Development* | 2(8), 267-275.

Hafiz Muhammad Umer Farooq, **Muhammad Usman**, Muhammad Shoaib Azeem, Ghulam Shabbir, Mishkwat Hameed (2026) Phytochemical Combination Therapy for Managing Diabetes-Associated Metabolic Dysfunction and Cognitive Decline. *The Kashmir Journal of Academic Research and Development* | 2(6), 27-39.

- Rizwan, M., S. Saher, M. Kashif, C. A. Akram, **M. Usman**, H. M. U. Farooq, 2025, Prevalence, Antibiotics Susceptibility Profiling, And Associated Risk Factors Of Coliform Mastitis In Dairy Goats. *Pakistan Journal of Science*, 77(2), 206–210.
- Muhammad Umar Sharif , Muhammad Usman , Hafiz Muhammad Aslam, Muhammad Abdullah and **Muhammad Usman**, 2024, Revolutionizing Animal Health The Role of Nanoparticles in Veterinary Medicine (Review Article). *Asian Journal of Research in Animal and Veterinary Sciences*, 7(3), 196–207.
- Naimat Ullah Muhammad Kasib Khan Asghar Abbas Kashif Hussain Atif Rehman Muhammad Umair Waqas Baseer Ahmad Hafeez ur Rehman Ali Khera Muhammad Adnan Sabir Mughal Rana Muhammad Shahbakht Riffat Yasin **Muhammad Usman** Muhammad Kashif Mazhar Abbas Tanveer Ahmad, 2024, Immunomodulatory And Protective Effects Of Oryza Sativa Derived Arabinoxylans Axs (*Kurdish Studies*). *Kurdish Studies*, 12(5), 178–184.
- R.Z. Abbas, A. Abbas, Z. Iqbal, M.A. Raza, K. Hussain, T. Ahmed, **M.U. Shafi**, 2020, In vitro anticoccidial activity of Vitis vinifera extract on oocysts of different Eimeria species of Broiler, Chicken. *Journal of the hellenic veterinary medical society*, 71(3), 2267–2272.
- Shaq Ahmad , Shujait Ali , Asghar Abbas , Rao Zahid Abbas , Muhammad Zubair , Muhammad Asif Raza , Naheed Bano , **Muhammd Usman Shafi** , Syed Nadeem Badar , Kashif Hussain , Muhammad Rizwan , Tanveer Ahmad, 2019, Effects of dietary supplementation of Linseed Oil Omega-3 on quality parameters of Nili Ravi Bull Spermatozoa. *Livestock Science*, 224, 57–59
- M Rizwan, AS Qureshi, MF Hassan, **M Usman**, M Saleem, 2018, Effect of GnRh, Hcg and P4 Therapy on Pregnancy Rate of Crossbred, Cattle. *International Journal of Agriculture and Biology*, 20(6), 1433–1436.
- Anas Sarwar Qureshi, **Muhammad Usman Shafi**, Zeeshan Akbar Zeeshan Akbar, Malik Zohaib Ali, 2017, Seasonal variations in spermatogenic activity and serum testosterone concentration in Japanese quails, *Pakistan Journal of Agricultural Sciences*, 54, 431–435. <https://doi.org/10.21162/PAKJAS17.3701>

Book Chapter

1. Rashid S, Sharif MU, Farooq U, Meer MS, Ansari AR, **Shafi MU**, Hussain M, Shehzad Q, and Rehan S, 2025. **Treatment of peripheral nerve injury using mesenchymal stem cells**. In: Nisa ZU, Altaf S, Zahra A and Saeed K (eds), *Holistic Health: Nanobiotech in Holistic Health: Innovations for Integrated Well-being*. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 17-23. <https://doi.org/10.47278/book.HH/2025.235>
2. Ullah A, Qureshi AS, Farooq U, **Shafi MU**, Umar Z, Hussain M, Rehman HMSU, Sharif MU, Usman M, and Rehan S, 2025. **Characterization and diagnosis of trypanosomiasis in equine species an updated review**. In: Abbas RZ, Akhtar T and Jamil M (eds), *Holistic Health: Pathways of Infection: Zoonoses and Environmental Disease Transmission*. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 166-174. <https://doi.org/10.47278/book.HH/2025.34>

Abstracts published

1. Asifa Rehman, Anas Sarwar Qureshi, Hammad Ahmad Khan, Sarmad Rehan, Shah Nawaz, Adeel Sarfraz, Abdur Rahman Ansari, **Muhammad Usman**, Effect of Black Seed Oil on Histological Changes Induced by Atrazine in Gastrointestinal Tract of Rat, 4th International One Health Conference 2022

2. Asifa Rehman, Anas Sarwar Qureshi, Hammad Ahmad Khan, Sarmad Rehan, Shah Nawaz, **Usman Shafi**, Qamar Shahzad Ahmed1, and Muhammad Usman, Effect of black seed oil on histological changes induced by atrazine in gastrointestinal tract of rat, Bio-A-061, International Conference on Interdisciplinary Research Innovations (ICIRI-2022)
3. Faiqa Muqaddas, Anas Sarwar Qureshi, Shakeela parveen, Misbah Ijaz, Shah Nawaz, **Usman Shafi**, Sarmad Rehan, and Qamar Shahzad Ahmed, Effect of black seed (nigella sativa) oil on glyphosate induced toxicity in the female reproductive system of RAT, Bio-A-065, International Conference on Interdisciplinary Research Innovations (ICIRI-2022)
4. Mushtaq Hussain, Anas Sarwar Qureshi, Naureen Rana, Mughees Aizaz Alvi, Shah Nawaz, **Usman Shafi**, Sarmad Rehan, and Qamar Shahzad Ahmed, Effect of black seed (nigella sativa) oil on atrazine induced histological changes in the testes of albino rats, Bio-A-084, International Conference on Interdisciplinary Research Innovations (ICIRI-2022)
5. Qamar Shahzad Ahmed, Shah Nawaz, Anas Sarwar Qureshi, Muhammad Sakandar Majid, **Usman Shafi**, Sarmad Rehan, and Muhammad Usman Assessing the therapeutic potential of blackseed oil post atrazine toxicity in female reproductive system of rats, Bio-A-088, International Conference on Interdisciplinary Research Innovations (ICIRI-2022)
6. Romaisa, Anas Sarwar Qureshi, Naureen Rana, Farrah Deebe, Shah Nawaz, **Usman Shafi**, Sarmad Rehan, Qamar Shahzad Ahmed, and Muhammad Usman, Effect of black seed oil (nigella sativa) on glyphosate induced histological changes in the male reproductive system of rat. Bio-A-090, International Conference on Interdisciplinary Research Innovations (ICIRI-2022)
7. Muhammad Sheraz, Shah Nawaz, Anas Sarwar Qureshi, Khalid Abbas, **Usman Shafi**, Sarmad Rehan, Qamar Shahzad Ahmed, and Muhammad Usman, Hematological and histomorphometrical studies of digestive system in broiler fed with modified biochar supplemented diet during starter phase (01 to 21 days) Bio-A-107, International Conference on Interdisciplinary Research Innovations (ICIRI-2022)
8. Tanveer Hussain Gohar, Anas Sarwar Qureshi, Shah Nawaz, Nazia Ehsan, **Usman Shafi**, Sarmad Rehan, and Qamar Shahzad Ahmed Effect of modified biochar on hematological parameters and histomorphometrical characteristics on gastrointestinal tract (git) of broilers during starter phase (01 to 21 days), Bio-A-111, International Conference on Interdisciplinary Research Innovations (ICIRI-2022)
9. Muhammad ali, muhamad rizwan, **Muhammad usman** Muhammad shoaib aslam, Epidemiology of theileriosis in goat in multan, conference on, sustainable crop and animal production systems December 8-10 2016 university of Haripur.
10. Muhammad ali, muhamad rizwan, sfadar imran **Muhammad usman**, Muhammad shoaib aslam, The effect of administration of variable doses of arginine and lysine combined with Zn in the lactating cows on the Zn concentration in milk. Conference on, sustainable crop and animal production systems December 8-10 2016 university of Haripur.

1. Muhammad Umar sharif, Dr Anas Sarwar Qureshi, Dr Shah Nawaz **Muhammad Usman**, Regenerative medicine: a promising frontier. AVN Agro Veterinary News 35(2). ISSN 17228-1512, 2023.
2. Muhammad Rizwan, **Muhammad Usman**, Ahsan Akram, Umer Iqbal, Najma Khan Meat Health Hazard Awareness among Butcher's Retailers. AVN Agro Veterinary News 24(8). ISSN 17228-1512, 2018
3. Rashid Fayaz, Muhammad Rizwan, Asghar Abbas, Zahid Abbas, **Muhammad Usman**. Role of essential oils for the control of Haemonchus contortus. AVN Agro Veterinary News 24(2). ISSN 17228-1512
4. Asghar Abbas, Muhammad Rizwan, **Muhammad Usman**, Zahid Abbas, Tanveer Ahmed. Coccidiosis in Poultry and its available control measures in Pakistan. AVN Agro Veterinary News ISSN 17228-1512
5. Muhammad Mohsin, Muhammad Rizwan, Asghar Abbas, Zahid Abbas, **Muhammad Usman**, Tahir Aleem. Water borne parasitic diseases: Impact on Health and its control strategies. L AVN Agro Veterinary News. 24(5):04 ISSN 17228-1512
6. Asghar Abbas, Zahid Abbas, **Muhammad Usman**, Muhammad Rizwan and safdar Imran, Use of botanical driven essential oils against ectoparasites of veterinary importance. Technology Times, Pk, Pages: 8 Vol: IX Issue No: 04 January-22 -28, 2018
7. Dr. Asghar Abbas, Dr. Rashid Fayaz, Dr. Rao Zahid Abbas and Dr. **Muhammad Usman** Milk fever disease in dairy animals and protocols for its prevention. 06 – Technology Times, Pk Pages: 8 Vol: VIII No: 35 & 36 August 28 – September 10, 2017
8. Anas sarwar qureshi, **Muhammad usman** گول اور اعلیٰ پانی آلودگی **Zarai Digest January-march 2022**

Professional Training /Conference/ Certificates Training

- Level 1 training program (Bahauddin Zakaryia University Multan) 5/5/2025 to 8/5/2025
- One day seminar on Recent advances in feed manufacturing technology at Department of L&PP BZU Multan 30/04/2025
- International training workshop on Basic techniques in mesenchymal stem cell culture and toxicity assay (Department of anatomy, university of agriculture Faisalabad) Feb 26-28/2019
- 3rd national workshop on developing/updating training modules of DVM Internship program (FVS, BZU Multan 25/01/2018
- National workshop on Teaching and research techniques in anatomy (Department of anatomy, university of agriculture Faisalabad)February 15-16/2017
- Training workshop on Reproductive ultrasonography in domestic animals (UVAS Lahore) April 14-18/2014
- Five days course on Bio risk management by Relief international at Gomal university D I Khan February 22-26/2016
- Training workshop on Notifiable animal diseases-surveillance and reporting aspects, (Directorate of Animal Disease Diagnostic, Reporting and Surveillance L&DD Punjab))27/05/2011
- EU asia link project short course on livestock ecology, sustainable land use and livestock systems (Department of Anatomy, university of agriculture Faisalabad) January 12-24/2004

Conference

- *3rd national symposium on one health, Faculty of veterinary sciences, university of agriculture Faisalabad-08/09/2021*
- *National camel conference- Heath, Reproduction and Products Department of anatomy, Faculty of veterinary sciences, University of agriculture Faisalabad 25/01/2019*
- *Symposium on Global challenges of Antimicrobial resistance, Government college university Faisalabad and American society for microbiology 15/10/2018*
- *certificate of participation in conference on sustainable crop and animal production system, Hari pur university 8-10/12/2016*
- *Online workshop on writing a research proposal/thesis department of sociology BZU Multan 26/11/2025*
- *NNI & WNSC workshop 103. Little plates, big impact: shaping healthy Eaters in toddlerhood 6th-8th November 2025 by nestle nutrition institute.*
- *Webinar on, where to begin in computational drug discovery: tools, skills, and first steps*
- *16/08/2025 by Insiliuco hub*

Certificates

- *Certificate of honour for drama, Art & Literary Society (ALS), faculty of veterinary sciences UAF, year 2005-06*
- *Certificate room competition for Pakistan day celebration office of hall warden university of agriculture Faisalabad 23/03/2007*
- *Certificate of Attendance The Author's Journey: From Manuscript to Global Market- An Expert Session on Academic Book Publishing (1 hour and 30 minutes) at HEC Pakistan, on Monday 20 July, 2026 Presented by Aishwarya Nayal CSM, Muhammad saeed Executive Director*

References

“Academic and professional references will be provided upon request.”