

Muhammad Usman (M.Phil, DVM)

Lecturer

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ACADEMIC QUALIFICATION

Qualification	Grade/Division	Institution	Year
M.Phil (Anatomy & Histology)	First Division	University of Veterinary and Animal Sciences, Lahore, Pakistan	2018
Doctor of Veterinary Medicine	First Division	Gomal University, Dera Ismail Khan, Pakistan	2015

PROFESSIONAL EXPERIENCE

Job title/ Profession	Department/ Status	From	To	Duration on Post	Job Responsibilities
Lecturer	Department of Anatomy & Histology	14 th November, 2018	to-date	07 Years 09 Months	Teaching undergraduate and graduate courses, Supervising undergraduate and graduate research

PUBLICATIONS

Scientific Papers: More than 10 publications in peer-reviewed national and international impact factor journals

CURRENT RESEARCH SUPERVISION

M.PHIL/MS SCHOLARS SUPERVISION (COMPLETED)

S. No.	Name of Student	Year	Research Title
01.	Saba Batool	2022	Effect of Dietary Supplementation of Mannan Oligosaccharide and <i>Moringa Oleifera</i> on Histology and Hematology of Albino Mice.
02.	Burhan	2022	Effect of dietary supplementation of mannan oligosaccharide and <i>Moringa oleifera</i> on growth performance of albino mice.
03.	Rida Ajmal	2022	Response of histomorphometry and biochemical indices of <i>Hypophthalmichthys molitrix</i> during cadmium toxicity.
04.	Sadeema Maryam	2022	Determining the changes in the histological and genotoxic parameters of fish <i>Oreochromis niloticus</i> exposed to lead.
05.	Sumaira Fiaz	2022	Effect of cadmium on growth performance, liver histology, and somatic index of <i>Lebeo Rohita</i> .

06.	Iqra Zulfiqar	2022	Evolution of Growth Performance, hepatosomatic, and histology of <i>Lebeo Rohita</i> exposed to chromium and cadmium mixture.
07.	Nimra Zahid	2023	Effect of Probiotic (Yeast) on Growth Performance, Intestine Microbiota, and Histology of <i>Lebeo Rohita</i> .
08.	Aqsa Fatima	2024	Dietary effect of Aloe vera on growth performance, digestive, and antioxidant enzymes of <i>Nile tilapia</i> .
09.	Izab Tanveer	2025	Antimicrobial activity of collagen derived from byproducts of <i>Labeo Rohita</i> .
10.	Muhammad Waqas	2025	Investigation to the antimicrobial enzymes of skin mucus of <i>Cirrhinus Mrigala</i> .

SPECIALIZED TRAININGS/ WORKSHOPS

01	Participated in a hands-on training session on Artificial insemination in goat” held on 4 th December 204 at Gomal University, Dera Ismail Khan.
02	Attended three-day workshop on “Teaching methodologies and resource management of veterinary anatomy and histology course” from 3 rd to 7 th October 2016 in UVAS Lahore.
03	Participated in “Hands-on Training on Mice Handling Blood and Skin Sample Collection” held on 23 November 20216 at UVAS Lahore.
04.	Attended three-day workshop on “In-service Competency Enhancement Training for University Faculty’ from 28 th – 30 th January 2019 at CUVAS, Bahawalpur
05.	Attended a three-day international training workshop on “Mesenchymal Stem Cell Cultures and Toxicity Assays” from 26 to 28 February 2019 in Department of Anatomy University of Agriculture, Faisalabad.
06.	Participated in ‘International Buffalo Congress (IBC-2019)’ held on 18-19 February 2019 at Pearl Continental, Lahore, Pakistan
07.	Participated in “1 st International Workshop on Biodiversity: Techniques & Tools’ as a part of ‘Exhibition on Biodiversity Conservation of Cholistan Desert” held on April 4-5, 2019 at CUAVS, Bahawalpur.
08	Attended One-day workshop on “Introduction of Endnote” held on 23th April 20219.
09.	Participated in one day hands on training workshop on “Application of Statistical Package for Social Sciences (SPSS) in Research” held on April 23, 2019 at CUAVS, Bahawalpur
10.	Participated in one day workshop on “Application of SAS Statistical Techniques in Animal Production and Veterinary Sciences” held on May 2, 2019 at CUAVS, Bahawalpur
11	Attended online webinar on “Humanized Antibodies and vaccine development against COVIDE 2019” held on 07 April 2021.
12	Completed 05 days virtual training on “Bio-risk Management “from 21 to 25 June 2021 at CUVAS Bahawalpur.
13.	Attended three-day workshop on “International Multidisciplinary Conference on Innovations in Biochemistry” veterinary medicine and pharmacology 6-7 February 2023 CUVAS.
14	One-week training on “Data Analysis with R” 17-21 July 2023 CUVAS.
15.	Assessment of desert ecosystem through animals 01 march 2024 in CUVAS Bahawalpur.

16.	Completed Eighteen days training on “National outreach program for Higher Education Faculty” Held 21th April to 8 th May 2025 at CUVAS Bahawalpur.
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PUBLICATIONS

S. No.	Research Articles (Web of Science)	Impact Factor
01.	Rehman, S. U., Shafqat, F., Usman, M. , & Niaz, K. (2021). Triclosan Induced Oxidative Stress, Estrogenicity, Mutagenicity, Carcinogenicity, and Genotoxicity: A Novel Therapeutic Approach. <i>Biomedical Research and Therapy</i> , 8(12), 4750-4774. https://doi.org/10.15419/bmrat.v8i12.712	0.6
02.	Aqib, A.I., Muzammil, I., Naseer, M.A., Shoaib, M., Bakht, P., Zaheer, T., Khan, Y.R., Khan, R.L., Usman, M. , Shafeeq, M. and Tanveer, Q. (2022). Pathological insights into camel mastitis. <i>Acta tropica</i> , 231, 106415. https://doi.org/10.1016/j.actatropica.2022.106415 .	2.6
03.	Maryam S, Naz H, Ahmed T, Omran A, Alanazi YF, Usman M , Ijaz MU, Shah SQA, Qazi AA, Ali B, Ali H, Alasmari A, Heidary K. Determination of histological and genotoxic parameters of Nile Tilapia, <i>Oreochromis niloticus</i> exposed to lead (Pb). <i>Cell Mol Biol</i> (Noisy-le-grand). 2023 Apr 30;69(4):7-15. doi: https://doi.org/10.14715/cmb/2023.69.4.2	1.6
04	Ajmaal, R., Naz, H., Mehmood, K., Batool, M., Rehman, N.U., Ahmed, T., Shah, S.Q.A., Safdar, W., Imam, S., Ijaz, M.U. and Usman, M. , 2024. Histomorphometric Indices and Catalase Response in Muscles, Gills and Intestine of Cadmium Stressed Hypophthalmichthys molitrix https://dx.doi.org/10.17582/journal.pjz/20230509070520	
05	Fiaz, S., Naz, H., Ahmed, T., Zulfiqar, I., Mehmood, K., Jabbar, M., Shah, S.Q.A. and Usman, M. , 2024. Toxicity, histological, hepato-somatic index and growth responses of cadmium stressed Labeo rohita. <i>Punjab Univ. J. Zool</i> , 39(1): 79-85. https://dx.doi.org/10.17582/journal.pujz/2024/39.1.79.85	0.55
06	Ashraf, Q., Aqib, A.I., Majeed, H., Haq, S.U., Nisar, M.F., Usman, M. , Muneer, A., Batool, S. and Ataya, F.S., 2024. Effective synergism of Moringa oleifera with antibiotics, body growth, and decoction replacement. <i>South African Journal of Botany</i> , 175, pp.628-636 https://doi.org/10.1016/j.sajb.2024.10.054	2.7
07	Khaliq, H., M. Younas, M. Sharif, S. Hussain, U. Younas, M. Sajid, Qudratullah, M.F. Khan, M. Usman and Q. Ullah. 2025. Comparative analysis of biogas production efficiency from anaerobic digestion of cow dung and mixed dung substrates. <i>Sarhad Journal of Agriculture</i> , 41(2): 881-893. https://dx.doi.org/10.17582/journal.sja/2025/41.2.881.893	0.60
08	Usman, M. , Ashraf, S., Yousaf, M.S., Hussain, H.I., Ijaz, N., Ullah, Q., Khaliq, H., Rauf, M., Raiz, S., Gondal, M.A. and Zaneb, H., 2026. Effect of dietary supplementation of mannan oligosaccharide on gut morphology of pre-weaning calves. <i>Sarhad Journal of Agriculture</i> , 42(1), pp.326-338 https://dx.doi.org/10.17582/journal.sja/2026/42.1.326.338	0.60

S. No.	Publication in HEC Recognized Journals	HEC Category
01.	AMNA MARIUM, HUMA NAZ, TANVEER AHMED, MUHAMMAD UMAR IJAZ, MUHAMMAD USMAN , ZAHID MANZOOR, BASHARAT ALI, AWATIF	X category

	OMRAN, YASMENE F. ALANAZI, RASHA M.A. JAME, & AYMAN EL SABAGH. Evaluation of Catalase Activity, Gill Histology, and Genotoxic Effects of Cadmium in Tilapia (<i>Oreochromis niloticus</i>) Fingerlings.	
02.	Muhammad Rizwan, Huma Naz, Tanvir Ahmad, Mr. Muhammad Ahmad, Sajid Abdullah, Nimra Zahid, Muhammad Usman , Syed Qaswar Ali. Acute toxicity, catalase activity, and histological examination of Cd+Pb mixture-stressed tilapia. <i>Punjab University Journal of Zoology</i> .	X category

BOOK CHAPTER

01	Aqib, Amjad Islam, Tean Zaheer, Muhammad Usman , Muhammad Arslan, and Khazeena Atta. "Commercialization of Nanovaccines: Utopia or a Reality?" Nanovaccinology as Targeted Therapeutics, (2022): 267-282 https://doi.org/10.1002/9781119858041.ch17 .
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PAPER PRESENTATION IN NATIONAL & INTERNATIONAL CONGRESSES

01	IBVMP-1 Effect of dietary supplementation of Mannan oligosaccharide on gut morphology of preweaning calves M. Usman , ¹ H. Zaneb ¹ , S. Ashraf ¹ , S. Masood ¹ , M.S. Yousaf ² , H.F. Rehman ¹ , M.G. Khan ¹
02	IBVMP-34 Molecular characterization of gene from velogenic strains of Newcastle disease virus isolated from Sahiwal, Pakistan. Awais Ihsan ^{1*} , Muhammad Saad Khan, Hafiz Iftikhar Hussain, Mujahid Iqbal, Muhammad Usman .
03	O-57/ICAZ-2022 Rida Ajmaal, Huma Naz, Tanveer Ahmed, Muhammad Usman , Muhammad Umar Ijaz, Adnan Ahmad Qazi, Syed Qaswar Ali Shah. 2022. Histomorphometric indices and catalase response in Cadmium (Cd) stressed Silver Carp (<i>Hypophthalmichthys molitrix</i>). 17th-18th October, 2022,
04.	O-58/ICAZ-2022 Murtaza Manzoor, Huma Naz, Amjad Islam Aqib, Tanveer Ahmed, Muhammad Usman , Muhammad Umar Ijaz, Syed Qaswar Ali Shah, and Shakeela Perveen. 2022. Assessment of ampicillin effects on behavior, enzyme activity, and histology of <i>Labeo rohita</i> . 17th-18th October, 2022,
05.	O-61/ICAZ-2022 Sadeema Maryam, Huma Naz, Tanveer Ahmed, Muhammad Usman , Sajid Abdullah, Muhammad Umar Ijaz, Syed Qaswar Ali Shah and Habib Ali. 2022. Determining the changes in the histological and genotoxic parameters of fish, <i>Oreochromis niloticus</i> exposed to lead (Pb). 17th-18th October, 2022,
06.	O-62/ICAZ-2022 Muhammad Rizwan, Huma Naz, Tanveer Ahmed, Muhammad Usman , Muhammad Umar Ijaz, Syed Qaswar Ali Shah and Shakeela Perveen. 2022. Determining the acute toxicity of Pb+Cd metal mixture, catalase activity and histopathological changes in <i>Oreochromis niloticus</i> . 17th-18th October, 2022,
07.	CBGP-6 Rabbiya Sehar, Huma Naz, Tanveer Ahmed, Syed Qaswar Ali Shah, Sajid Abdullah, Muhammad Umar Ijaz, Muhammad Usman , and Murtaza Manzoor. Sub-lethal effects of lead on catalase, peroxidase, superoxide dismutase and liver histology of tilapia. P. 17.
08.	CBGP-7 Raisa Bano, Huma Naz, Tanveer Ahmed, Sajid Abdullah, Muhammad Usman , Adnan Ahmed Qazi, Muhammad Adeel Hassan, Iqra Zulfiqar and Murtaza Manzoor. Assessment of oxidative stress and histological parameters of Cr+Cd exposed <i>Labeo rohita</i> . P. 17. 23rd-25th April, 2024, 42th Pakistan Congress of Zoology.
09.	BGP-22 Tuba Mazhar, Huma Naz, Tanveer Ahmed, Syed Qaswar Ali Shah, Sajid Abdullah, Khalid Abbas, Muhammad Usman , Tehreem Asad and Murtaza Manzoor. Effect of chromium on <i>Labeo rohita</i> gills and catalase activity. P 26. 23rd-25th April, 2024, 42th Pakistan Congress of Zoology.
10.	BGP-124 Ghanwa Maryum, Huma Naz, Tanveer Ahmed, Syed Qaswar Ali Shah, Sajid Abdullah, Muhammad Umar Ijaz, Muhammad Usman , Zulfiqar Khursheed and Murtaza

	Manzoor. Sub-lethal effects of chromium+cadmium mixture on fish, Labeo rohita P 86 23rd-25th April, 2024, 42th Pakistan Congress of Zoology.
11.	CBGP-125 Muhammad Ahmad, Huma Naz, Tanveer Ahmed, Syed Qaswar Ali Shah, Muhammad Adeel Hassan, Sajid Abdullah, Muhammad Usman and Murtaza Manzoor. Studies on the biochemical and histological alterations in Oreochromis niloticus exposed to cefoxitin. P. 87 23rd-25th April, 2024, 42th Pakistan Congress of Zoology.
12.	CBGP-126 Marium Toufiq, Huma Naz, Tanveer Ahmed, Syed Qawar Ali Shah, Sajid Abdullah, Tahreem Asad, Iqra Zulfiqar, Muhammad Usman and Murtaza Manzoor. Chronic effects of metal (Cd) toxicity on liver of Oreochromis niloticus. P. 87 23rd-25th April, 2024, 42th Pakistan Congress of Zoology.
13.	CBGP-127 Aqsa Batool, Huma Naz, Tanveer Ahmed, Sajid Abdfauna, Ullah, Muhammad Usman , Adnan Ahmed Qazi, Zahid Manzoor, Muhammad Adeel Hassan, and Murtaza Manzoor. Chronic effects on Pb+Cd mixture on biochemical and histological parameters of tilapia. P. 88 23rd-25th April, 2024, 42th Pakistan Congress of Zoology.
14.	FEWFM-12 Tehniat Khaleeq, Huma Naz, Tanveer Ahmed, Syed Qawar Ali Shah, Amjad Islam Aqib, Sajid Abdullah, Muhammad Usman , Iqra Zulfiqar, and Murtaza Manzoor. Effects of probiotics on growth performance, intestinal microbial fauna, and histology of Labeo rohita. P. 182 23rd-25th April, 2024, 42th Pakistan Congress of Zoology.

MEMBER OF PROFESSIONAL SOCIETIES

1. Member of **Pakistan Veterinary Medical Council (PVMC #10063)**