

# Dr. Qudrat Ullah

PhD (Theriogenology)  
**Assistant Professor**

Mobile: +92 334 7972741  
Email: [qudratullah1@cuvas.edu.pk](mailto:qudratullah1@cuvas.edu.pk)



## Biography

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Dr. Qudrat Ullah is an Assistant Professor in the Department of Theriogenology, Faculty of Veterinary Science, Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Pakistan. He completed his Doctor of Veterinary Medicine (DVM) in 2011 at The University of Agriculture, Faisalabad, Pakistan. In 2013, Dr. Ullah received HEC Indigenous MPhil-PhD scholarship from the Higher Education Commission of Pakistan and completed his M.Phil. in 2013 and his PhD in 2018 in Theriogenology from The University of Agriculture, Faisalabad, Pakistan. During his PhD, he conducted research at the Institute for Bacterial Infections and Zoonoses at Friedrich Loeffler Institute, Jena, Germany, through the HEC International Research Support Initiative Program (IRSIP). Dr. Ullah's research interests primarily focus on cutting-edge and interdisciplinary research in veterinary science, animal science, toxicology, and zoology, with particular emphasis on animal health, disease, and biological sciences. He actively promotes interdisciplinary collaboration and maintains a holistic commitment to advancing research and education while contributing to the health and well-being of both animals and humans.

## Scholarly Profiles

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- Google Scholar ID: <https://scholar.google.com/citations?user=j-DpkLcAAAAJ&hl=en>
- ResearchGate ID: <https://www.researchgate.net/profile/Qudrat-Ullah-3/research>
- Loop ID: <https://loop.frontiersin.org/people/513456/overview>

## Research Skills and Interest:

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- **Molecular Gene Expression Analysis:** Proficient in real-time quantitative Polymerase Chain Reaction (qPCR) for gene expression studies.
- **Automated DNA Extraction:** Skilled in utilizing the QIAcube system for efficient and high-quality DNA extraction.
- **Protein Analysis:** Experienced in Western blot techniques for protein detection, identification, and quantification.

- **Immunological Assays:** Capable of performing indirect Enzyme-Linked Immunosorbent Assays (ELISA) to detect antibodies or antigens especially for Q fever and brucellosis.
- **Serological Expertise:** Adept in serological methods for studying immune responses and diagnosing infectious diseases especially for Q fever and brucellosis Serology e.g., RBT, CFT, iELISA for rapid screening in livestock.
- **Reproductive Health Assessment:** Skilled in using ultrasonography to assess and monitor reproductive health in animals.
- **Artificial Insemination:** Proficient in artificial insemination techniques to improve genetics and breeding in livestock.
- **Pregnancy Detection:** Experienced in early pregnancy diagnosis methods for animals.
- **Veterinary Reproductive Health Management:** Competent in diagnosing and managing clinical cases related to veterinary gynaecology and andrology to ensure animal health and reproductive success

### Job Experience

| Post held                                    | Where employed                                                                          | Duration   |            |
|----------------------------------------------|-----------------------------------------------------------------------------------------|------------|------------|
|                                              |                                                                                         | From       | To         |
| <b>Assistant Professor (BPS)</b>             | Faculty of Veterinary and Animal Sciences, CUVAS, Bahawalpur, Punjab, Pakistan.         | 03.04.2024 | -Continue- |
| <b>Assistant Professor (TTS)</b>             | Faculty of Veterinary and Animal Sciences, The University of Agriculture, D.I. Khan, KP | 07.03.2022 | 31.04.2024 |
| <b>Assistant Professor (IPFP + Contract)</b> | Faculty of Veterinary and Animal Sciences, Gomal University, D.I. Khan, KP              | 14.05.2019 | 03.03.2022 |
| <b>Teaching Assistant</b>                    | Department of Theriogenology, University of Agriculture, Faisalabad, Punjab             | 05.10.2015 | 18.01.2016 |
| <b>Research Fellow</b>                       | Institute of Microbiology, University of Agriculture, Faisalabad, Punjab                | 28.11.2011 | 27.11.2012 |

### Networking/ Memberships of Learned Societies

- Lifelong member of "Society for Animal Reproduction of Pakistan (SARP)"
- Lifelong member of "International Society for Infectious Diseases (ISID)"
- Lifelong member of "Pakistan Veterinary Medical council (PVMC)"

- Member "American Society for Theriogenology (SFT)"
- Member "The Society for Theriogenology and Reproductive Medicine (SFTRM)"
- Member of "British Infection Association (BIA)"
- Member "American Society for Microbiology (ASM)"
- An active professional member of the "Institute for Engineering Research and Publications (IFERP)"
- Member of "African Society for Laboratory Medicine (ASLM)"
- Scientific Committee Member at "The 8th International Conference on Agricultural and Biological Sciences (series) (ABS 2022/ ABS 2023)"
- Scientific Committee Member at "6th International Conference & Industrial Exhibition (series), Dairy Science Park, Pakistan. March 1-31"
- Member Anti-Drug and Tobacco Committee (ADTC), CUVAS

### Administrative Services

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- **Officer In Charge**, Department of Theriogenology, CUVAS, Bahawalpur till April, 2026.
- **Depuy Director**, Semen Production Unit, CUVAS, Bahawalpur
- **Member**, Anti-Drug and Tobacco Committee (ADTC), CUVAS
- **Departmental focal person** for PM laptop scheme, CUVAS, Bahawalpur
- **Theriogenology Expert** at Directorate of Livestock Farms, CUVAS, Bahawalpur
- **Member**, Board of Study, Department of Theriogenology, CUVAS, Bahawalpur

### Editorial Contributions

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- Editor "International Journal of Animal Biotechnology and Applications"
- Associate Editor "International Journal of Antibiotic Research Review Editor at Microbial Pathogenesis Journal Review
- Editor Review Editor at Frontiers in Veterinary Science
- Review Editor at Journal of Animal Physiology and Animal Nutrition
- Review Editor at Journal of world aquaculture society
- Review Editor at Journal of Pharmaceutical Research International
- Review Editor at Journal of Pakistan Veterinary Journal
- Review Editor at Journal of Critical Reviews in Microbiology
- Review Editor at Asian Journal of Research in Infectious Diseases
- Review Editor at Journal of Innovative Sciences
- Review Editor at Frontiers in Animal Science
- Review Editor at Frontiers in Epidemiology
- Review Editor at Veterinary Medicine and Science (Wiley)
- Review Editor at Frontiers in Immunology
- Review Editor at Sarhad Journal of Agriculture
- Review Editor at Epidemiologia
- Volunteer reviewer at MDPI

### Academic and Scientific Collaborations

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- Expert Project Reviewer at Pakistan Science Foundation (PSF)
- Expert Project Reviewer at Higher Education Commission (HEC) of Pakistan
- External Examiner and PhD Thesis Evaluator at The University of Agriculture Peshawar, KP-Pakistan
- External Examiner and Thesis Evaluator at The University of Agriculture, Faisal Punjab-Pakistan
- External Examiner and Thesis Evaluator at Kohat University Science and Techno Kohat, KP
- External Examiner and Thesis Evaluator at GGDC No. 2, D.I. Khan, KP

## Honors and Awards

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- Recognition/Certificate for a Highly Cited Papers of 2022 in Microorganisms journal
- HEC Indigenous MPhil-PhD scholarship Awardee
- HEC IRSIP Awardee
- FATA Nominee Scholarship Awardee

## Publications

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### A. Articles

1. **Qudrat Ullah**, Tariq Jamil, Muhammad Saqib, Mudassar Iqbal & Heinrich Neubauer (2022). Q Fever- A Neglected Zoonosis. *Microorganisms*. 10 (8): 1530. <https://doi.org/10.3390/microorganisms10081530> (IF=4.926)
2. **Qudrat Ullah**, Tariq Jamil, Falk Melzer, Muhammad Saqib, Muhammad Hammad Hussain, Huma Jamil, Muhammad Amjad Iqbal, Usman Tahir, Shakeeb Ullah, Zafar Iqbal Qureshi, Stefan Paul Schwarz, Heinrich Neubauer (2020). Epidemiology and associated risk factors for brucellosis in small ruminants kept at institutional livestock farms in Punjab, Pakistan. *Frontiers in Veterinary Science*. doi: 10.3389/fvets.2020.00526 (IF=3.471)
3. **Qudrat Ullah**, Hosny El-Adawy, Tariq Jamil, Huma Jamil, Zafar Iqbal Qureshi, Muhammad Saqib, Shakeeb Ullah, Muhammad Kamal Shah, Alam Zeb Khan, Muhammad Zubair, Ihtasham Khan, Katja Mertens-Scholz, Klaus Henning & Heinrich Neubauer (2019). Serological and Molecular Investigation of *Coxiella burnetii* in Small Ruminants and Ticks in Punjab, Pakistan. *International Journal of Environmental Research and Public Health* 16: 4271. doi:10.3390/ijerph16214271. (IF=4.614)
4. **Qudrat Ullah**, Tariq Jamil, Muhammad H. Hussain, Huma Jamil, Muhammad Saqib, Usman Tahir, Heinrich Neubauer & Lisa D. Sprague (2019). High seropositivity for enteropathogenic *Yersinia* spp. in sheep and goats across nine government farms in the Pakistani Punjab. *Journal of Infection in Developing Countries* 13(9):843-846. doi: 10.3855/jidc.11289 (IF=2.552)
5. **Qudrat Ullah**, Huma Jamil, Laeeq Akbar Lodhi, Zafar Iqbal Qureshi, Shakeeb Ullah, Tariq Jamil, Ihtasham Khan, Shahbaz Bashir, Qudratullah, Inamullah Wazir, M. Abdus Sallam and Muhammad Zubair (2019). Brucellosis is significantly associated with reproductive disorders

- in dairy cattle of Punjab, Pakistan. *Pakistan Journal of Zoology* 51(5):1995-97. DOI: <http://dx.doi.org/10.17582/journal.pjz/2019.51.5.sc10>. (IF=0.687)
6. **Qudrat Ullah**, Huma Jamil, Zafar Iqbal Qureshi, Muhammad Saqib & Heinrich Neubauer (2018). Sero-epidemiology of Q fever (Coxiellosis) in small ruminants kept at government livestock farms of Punjab, Pakistan. *Pakistan Journal of Zoology*, DOI: <http://dx.doi.org/10.17582/journal.pjz/2019.51.1.135.140>. (IF=0.687)
  7. Wu J, Khaliq H, Ke Y, Ullah Q\*, Sehgal SA, Yi X. Network pharmacology and integrative bioinformatics analyses identify PDE1A as a key target of pirfenidone in idiopathic pulmonary fibrosis. *Plos one*. 2026 Apr 10;21(4):e0342991. (IF=2.8)
  8. Li Z, Afzal MW, Farooq U, Khan MT, Wadood F, Momenah MA, Al-Rasheed M, Ahmed AE, Raziq F, Bachaya HA, Ullah Q. Drinking water supplementation of *Pediococcus acidilactici* improves breeder performance and immunity. *Journal of Applied Poultry Research*. 2026 Mar 27;100708. (IF=2.3)
  9. Jamil H, Ghaffar A, Afzal F, Naz S, Farooq A, Khan MS, Alzahrani FM, Alsharif KF, Alzahrani KJ, Ullah Q\*. Multi-Species Probiotics Improve Health Performance and Alleviate Stress Responses of Rohu (*Labeo rohita*) in Inland Brackish Water Ponds. *Probiotics and Antimicrobial Proteins*. 2026 Jun 25:1-8. (IF=5.3)
  10. Naz S, Chatha AMM, Alzahrani KJ, Alsharif KF, Alzahrani FM, Ullah Q\*, Amjad N, Khaliq H, and Hussain R (2026). Behavioral, hematological, biochemical, antioxidant, histopathological and micronuclear abnormality in the erythrocytes of *Ctenopharyngodon idella* exposed to chromium chloride toxicity. *Biol Trace Elem Res*. 2026. doi:10.1007/s12011-026-05135-0. (IF=4.3)
  11. Fan X, Jiang X, Ullah Q\*, Qadeer A, Rab SO, Alzahrani FM, Alzahrani KJ, Alsharif KF, Khan MZ. Role of TLR/NF- $\kappa$ B/MAPK signaling pathways in mastitis pathogenesis and their potential as therapeutic targets. *Annals of Animal Science*. 2026. (Accepted). (IF=2.2)
  12. Khan MS, Ghaffar A, Mahsud MAK, Ullah Q\*, Naz S, Jamil H, Raheemi H, Khaliq H, Niazi S\* (2026). Artificial Intelligence in Aquaculture and Fisheries: From Precision Breeding to Environmental Monitoring and Intelligent Health Management. *All Life*. doi:10.1007/s12602-026-11106-7. (IF=1.4)
  13. Iqbal, S., Naz, S., Chatha, A. M. M., **Ullah, Q\***, & Khaliq, H. (2026). Yogurt-based fermented fish silage from fish waste: A cost-effective and sustainable protein alternative for small-scale aquaculture. *Journal of Aquatic Food Product Technology* (Accepted). (IF=1.2)
  14. Usman M, Ashraf S, Yousaf MS, Hussain HI, Ijaz N, Ullah Q\*, Khaliq H, Rauf M, Raiz S, Gondal MA, Zaneb H. Effect of dietary supplementation of mannan oligosaccharide on gut morphology of pre-weaning calves. *Sarhad Journal of Agriculture*. 2026 Feb 16;42(1):326-38.
  15. Saima Naz, Urwah Ishaque, Ahmad Manan Mustafa Chatha, Babar Maqbool, Qudrat Ullah, Muhammad Farooq, Shabana Naz, Naseer Khan Momand, Ibrahim A. Alhidary (2025). Regulation of Milk Production by the MAPK/ERK Pathway in Water Buffalo (*Bubalus bubalis*): Genomic and Molecular Insights. *Vet Med Sci*. <https://doi.org/10.1002/vms3.70703>. (IF=1.7)
  16. Maria Saeed Khan, Abdul Ghaffar, **Qudrat Ullah**, Muhammad Farooq, Habiba Jamil,

- Muhammad Israr, Ibrahim Al-Alhidary (2025). Toxicological Effects of Lufenuron on Antioxidant Defence in Grass Carp (*Ctenopharyngodon idella*). *Vet Med Sci*. [doi: 10.1002/vms3.70626](https://doi.org/10.1002/vms3.70626). (IF=1.7)
17. Saima Naz, Urwah Ishaque, Ahmad Manan Mustafa Chatha, Muhammad Farooq, **Qudrat Ullah**, Shabana Naz, Marco Ragni, and Ibrahim Alhidary (2025). "Investigating the role of FOX gene family in development and stress response in *Labeo rohita*: A multi-faceted analysis of phylogeny and genome characterization." *PloS one* 20, no. 8 (2025): e0323740. <https://doi.org/10.1371/journal.pone.0323740> (IF=2.9)
  18. Raja Danish Muner, Muhammad Moaeen-ud-Din, Ali Haider Saleem, **Qudrat Ullah**, Ghulam Abbas, Babar Maqbool, Masroor Ellahi Babar, Yanzhen Bi, Farhan Farooq (2025). Genomic selection, gene editing, and reproductive biotechnology: a triad for the improvement of native buffalo breeds in a developing country perspective like Pakistan. *Tropical Animal Health and Production*. <https://doi.org/10.1007/s11250-025-04352-4> (IF=1.7)
  19. Muhammad Zahoor Khan, Liangliang Li, Yandong Zhan, Huang Binjiang, Xiaotong Liu, Xiyan Kou, Adnan Khan, Abdul Qadeer, **Qudrat Ullah**, Khalid Alzahrani, Tongtong Wang, Changfa Wang, Muhammad Zahoor (2025). Targeting Nrf2/KEAP1 signaling pathway using bioactive compounds to combat mastitis. *Frontiers in Immunology*. <https://doi.org/10.3389/fimmu.2025.1425901> (IF=5.7)
  20. Saima Naz, **Qudrat Ullah\***, Dalia Fouad, Abdul Qadeer, Maria Lateef, Muhammad Waqar Hassan, Ahmad Manan Mustafa Chatha (2025). Trace elements in fish species from the Punjnad headworks: Bioaccumulation and human health risk assessment. *PloS one*. <https://doi.org/10.1371/journal.pone.0310744> (IF=2.9)
  21. Khaliq H, Younas M, Sharif M, Hussain S, Younas U, Sajid M, Qudratullah, Khan MFU, **Ullah Q\***. Comparative analysis of biogas production efficiency from anaerobic digestion of cow dung and mixed dung substrates. *Sarhad Journal of Agriculture*. 2025;41(2):881-93.
  22. Ishaq, Huma Jamil, Muhammad Farooq, **Qudrat Ullah\***, Muhammad Zahoor Khan, Rubina Mushtaq, Fizzah Laeeq Lodhi, Babar Maqbool, Shujaat Hussain, Raja Danish Muner, Ziaullah, Laeeq Akbar Lodhi, 2025. Comparative Evaluation of Vincristine Sulfate and Vinblastine Sulfate for the Treatment of Transmissible Venereal Tumor in Dogs: A Pre-clinical and Pathological Study. *Pakistan Journal of Zoology*, [DOI: https://dx.doi.org/10.17582/journal.pjz/20230606060602](https://dx.doi.org/10.17582/journal.pjz/20230606060602) (IF=0.687)
  23. Mingming Jiang, Yanling Zheng, Daoping Ren, **Qudrat Ullah**, Muhammad Zahoor Khan and Yulin Ma (2025). The Effects of Brewer's Yeast on Growth Performance, Rumen Fermentation, and Serum Antioxidant Markers in Beef Cattle. *Pakistan Journal of Zoology*. [DOI: https://dx.doi.org/10.17582/journal.pjz/20240110151005](https://dx.doi.org/10.17582/journal.pjz/20240110151005) (IF=0.687)
  24. Nan jiang, C. Luo, M. Shao, Z. Zheng, S. Ullah, **Qudrat Ullah**, G. Sun, DZ Luosang, R. Mushtaq, Y. Ma, MK Shah, S. Naz, MZ Khan, WD Basang, 2025. Advancing Yak breeding in China: Harnessing Genetic resources and marker-assisted selection for improved production traits. *Pakistan Journal of Zoology*, pp 1-16. [DOI: https://dx.doi.org/10.17582/journal.pjz/20230624130639](https://dx.doi.org/10.17582/journal.pjz/20230624130639) (IF=0.687)
  25. Muhammad Z Khan, Chen Wenting, Wei Ren, Bingjian Huang, Xiyan Kou, Qudrat Ullah, Lin Wei, Tongtong Wang, Adnan Khan, Zhenwei Zhang, Liangliang Li, Changfa Wang (2024). Is

- There Sufficient Evidence to Support the Health Benefits of Including Donkey Milk in the Diet? *Frontiers in Nutrition*. <https://doi.org/10.3389/fnut.2024.1404998> (IF=4.0)
26. Saima Naz, Ahmad Manan Mustafa Chatha, Nisar Ahmed Khan, Qudrat Ullah, Faisal Zaman, Abdul Qadeer, Ibrar Muhammad Khan et al. "Unraveling the ecotoxicological effects of micro and nano-plastics on aquatic organisms and human health." *Frontiers in Environmental Science* 12 (2024): 1390510. <https://doi.org/10.3389/fenvs.2024.1390510> (IF=4.6)
  27. Khan MZ, Huang B, Kou X, **Ullah Q**, Chen Y, Liang H, Khan IM, Khan A, Chai W and Wang C (2024) Enhancing bovine immune, antioxidant and anti-inflammatory responses with vitamins, rumen-protected amino acids, and trace minerals to prevent periparturient mastitis. *Frontiers in Immunology*.14:1290044. doi: 10.3389/fimmu.2023.1290044 (IF=8.78)
  28. Dongjing Wang, Jiangyong Zeng, **Qudrat Ullah**, Cuomu Wujin, Zhonghua Su, 2024. Lactobacillus reuteri derived from horse alleviates Escherichia coli-induced diarrhea by modulating gut microbiota. *Microbial Pathogenesis*, 13:188:106541. doi: 10.1016/j.micpath.2024.106541 (IF=3.848)
  29. Ren D., Y. Guo, M. Jiang, Y. Sha, M.Z. Khan, **Qudrat Ullah**, Y. Ma and G. Cao, 2024. Effect of Bio-Fermented Feed on Simmental Crossbred Cattle's Growth Performance, Rumen Fermentation, and Antioxidant Status. *Pakistan Journal of Zoology*, DOI: <https://dx.doi.org/10.17582/journal.pjz/20230928085050>. (IF=0.687)
  30. Luobin He, Xuwei Li, Guifang Liu, Yang-Ji Cidan, **Qudrat Ullah**, Rubina Mushtaq, Yuhe Xiu, Guangming Sun, Dun-Zhu Luosang, and Nan Jiang, 2024. Yak's Resilience and Adaptation to High-Altitude Stress. *Pakistan Journal of Zoology*, DOI: <https://dx.doi.org/10.17582/journal.pjz/20231201092818>. (IF=0.687)
  31. Saima Naz, Ahmad Manan Mustafa Chatha, Guillermo Téllez-Isaías, Shakeeb Ullah, **Qudrat Ullah\***, Muhammad Zahoor Khan, Muhammad Kamal Shah, Ghulam Abbas, Azka Kiran, Rubina Mushtaq, Baseer Ahmad and Zulhisyam Abdul Kari (2023). "A Comprehensive Review on Metallic Trace Elements Toxicity in Fishes and Potential Remedial Measures." *Water*, vol 15, no. 16 (2023): 3017. <https://doi.org/10.3390/w15163017> (IF=3.4)
  32. Jiang, Nan, Saima Naz, Yulin Ma, **Qudrat Ullah\***, Muhammad Zahoor Khan, Jiaqi Wang, Xuan Lu, Dun-Zhu Luosang, Sadia Tabassum, Ahmad Manan Mustafa Chatha, and Wang-Dui Basang (2023). An Overview of Comet Assay Application for Detecting DNA Damage in Aquatic Animals. *Agriculture* 13, (3): 623. <https://doi.org/10.3390/agriculture13030623> (IF=3.408)
  33. Rahat Ullah Khan, Momin Khan, **Qudrat Ullah\***, Muhammad Zahoor Khan, Aamir Sohail, Rehmat Islam, Hazrat Bilal, Shakeeb Ullah, and Aamir Iqbal (2023). "In Vitro and In Vivo Effects of Conventional and Chitosan Nanoparticle-Encapsulated Miltefosine Drug for Treatment of Cutaneous Leishmaniasis." *In Medical Sciences Forum*, vol. 21, no. 1, p. 19. MDPI, 2023. <https://doi.org/10.3390/ECB2023-14334>
  34. Saima Naz, A.M.M. Chatha, **Qudrat Ullah\***, B. Maqbool, S. Iqbal, A.Z. Khan, M. Zubair, S. Hussain, R.D. Muner, and A.U. Rehman, (2023). Impact of chronic exposure to heavy metal mixtures on selected biological parameters of freshwater fish species. *Journal of Animal and Plant Sciences*. <https://doi.org/10.36899/JAPS.2023.6.0677> (IF=0.7)
  35. Bingjian Huang, Muhammad Zahoor Khan, **Qudrat Ullah**, Xiyan Kou, Yinghui Chen, Huili Liang, Nadir Khan, Adnan Khan, Wenqiong Chai and Changfa Wang (2023). Enhancing

metabolism and Milk Production Performance in periparturient period Dairy cattle through Rumen Protected Methionine and Choline Supplementation. *Metabolites*. <https://doi.org/10.3390/metabo13101080> (IF=4.1)

36. Khan, Rifat Ullah, Aamir Khan, Shabana Naz, **Qudrat Ullah**, Nikola Puvača, Vito Laudadio, Domenico Mazzei, Alireza Seidavi, Tugay Ayasan, and Vincenzo Tufarelli. (2023). "Pros and Cons of Dietary Vitamin A and Its Precursors in Poultry Health and Production: A Comprehensive Review. *Antioxidants*, vol 12, no. 5: 1131. <https://doi.org/10.3390/antiox12051131> (IF=7.675)
37. Bin Li, Muhammad Zahoor Khan, Ibrar Muhammad Khan, **Qudrat Ullah**, Zhuo-Ma Cisang, Nan Zhang, Dan Wu, Bingjiang Huang, Yulin Ma, Adnan Khan, Nan Jiang, Muhammad Zahoor (2023). "Genetics, environmental stress, and amino acid supplementation affect lactational performance via mTOR signalling pathway in bovine mammary epithelial cells. *Frontiers in Genetics* 14 (2023). <https://doi.org/10.3389/fgene.2023.1195774> (IF=3.7)
38. Shaheen Bibi, Ghulam Abbas, Muhammad Zahoor Khan, Tanzeela Nawaz, **Qudrat Ullah**, Aziz Uddin, Muhammad Fiaz Khan, Sajid Ul Ghafoor, Muhammad Shahid Nadeem, Sadia Tabassum, Muhammad Zahoor, (2023). The mutational analysis of mitochondrial DNA in maternal inheritance of polycystic ovarian syndrome. *Frontiers in Endocrinology*, 14. <https://doi.org/10.3389/fendo.2023.1093353> (IF=5.2)
39. Bingjian Huang, Muhammad Zahoor Khan, Wenqiong Chai, **Qudrat Ullah**, and Changfa Wang. "Exploring Genetic Markers: Mitochondrial DNA and Genomic Screening for Biodiversity and Production Traits in Donkeys." *Animals* 13, no. 17 (2023): 2725. <https://doi.org/10.3390/ani13172725> (IF=3.0)
40. Muhammad Zahoor Khan, Jingjun Wang, Yulin Ma, Tianyu Chen, Mei Ma, **Qudrat Ullah**, Ibrar Muhammad Khan, Adnan Khan, Zhijun Cao, and Shuai Liu (2023). Genetic polymorphisms in immune-and inflammation-associated genes and their association with bovine mastitis resistance/susceptibility. *Frontiers in Immunology* 14. <https://doi.org/10.3389/fimmu.2023.1082144> (IF=8.78)
41. Jiang N., C. Luo, M. Shao, Z. Zheng, **Qudrat Ullah**, M.Z. Khan, G. Sun, D.Z. Luosang, R. Mushtaq, Y. Ma and W.D. Basang, 2023. Uncovering the Role of Ribosomal Protein L8 in Milk Fat Synthesis Mechanisms in Yak Mammary Epithelial Cells. *Pakistan Journal of Zoology*, 1-16. DOI: <https://dx.doi.org/10.17582/journal.pjz/20230415100435> (IF=0.687)
42. MZ Khan, Mei Ma, Yulin Ma, Jinguin Wang, **Qudrat Ullah**, Jianxin Xiao, Tianyu Chen, Shuai Liu, Adnan Khan & Zhijun Cao (2022). Overview of the effect of rumen protected limiting amino acids (methionine and lysine) and choline on the immunity, antioxidative, and inflammatory status of periparturient ruminants. *Frontiers in Immunology*. 13:1042895. doi: <https://doi.org/10.3389/fimmu.2022.1042895> (IF=8.78)
43. Saima Naz, Borhan Mansouri, Ahmad Manan Mustafa Chatha, **Qudrat Ullah**, Zain Ul Abadeen, Muhammad Zahoor Khan, Adnan Khan, Saba Saeed & Rayees Ahmad Bhat (2022). Water quality and health risk assessment of trace elements in surface water at Punjnad Headworks, Punjab, Pakistan. *Environmental Science and Pollution Research* 20:1-13. <https://doi.org/10.1007/s11356-022-20210-4>. (IF=5.190)
44. Qudratullah, Ghulam Muhammad, Tariq Jamil, Imaad Rashid, **Qudrat Ullah** & Muhammad Saqib (2022). Efficacy Evaluation of a Combined Hemorrhagic Septicemia–Mastitis Vaccine

- in Dairy Cows and Buffaloes. *Animals* 12(6): 706. <https://doi.org/10.3390/ani12060706> (IF=3.231)
45. Abdul Sammad, Muhammad Zahoor Khan, Zaheer Abbas, Lirong Hu, **Qudrat Ullah**, Yajing Wang, Huabin Zhu & Yachun Wang (2022). Major Nutritional Metabolic Alterations Influencing the Reproductive System of Postpartum Dairy Cows. *Metabolites*, <https://doi.org/10.3390/metabo12010060>. (IF=5.581)
  46. Atta Ur Rehman, Abdul Haleem Shah, Sajjad Ur Rahman, Sanaullah Sajid, Imdad Ullah Khan, Qudrat Ullah, Arshad Farid and Muhammad Hashim Khan (2022). Molecular Confirmation and Immunological Cross Reactivity among *Mycoplasma gallisepticum* Isolates Recovered from Broiler Chicken in Khyber Pakhtunkhwa, Pakistan. *Pakistan Veterinary Journal*, DOI: [10.29261/pakvetj/2021.045](https://doi.org/10.29261/pakvetj/2021.045) (IF=1.803)
  47. Muhammad Haroon, Huma Jamil, **Qudrat Ullah**, Muhammad Farooq, Muhammad Inamullah Malik, Muhammad Fahim Ullah Khan, Israr Ahmad and Habibullah (2022). Cholesterol and serum minerals profile in the pregnancy and puerperium period of Beetal Goats. *Bioscience Research* 19(1): 381-385. (JCI=0.05)
  48. Rifat Ullah Khan, Shabana Naz, Hammad Ullah, **Qudrat Ullah**, Vito Laudadio, Qudratullah, Giancarlo Bozzo & Vincenzo Tufarelli (2021). Physiological dynamics in broiler chickens under heat stress and possible mitigation strategies. *Animal Biotechnology*, <https://doi.org/10.1080/10495398.2021.1972005> (IF=2.141)
  49. Saima Naz, Riaz Hussain, **Qudrat Ullah**, Ahmad Manan Mustafa Chatha, Ansar Shaheen and Rifat Ullah Khan (2021). Toxic effect of some heavy metals on hematology and histopathology of major carp (*Catla catla*). *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-020-10980-0>. (IF=5.190)
  50. Zhigang Liu, Qingsong Sun, Zhonghua Su, **Qudrat Ullah**, Weixia Yang, Lamu Yangjin, Zixin Li, Mengmeng Zhao, Zhongkai Li and Aifang Zheng (2021). Dynamic distribution of nasal microbial community in yaks (*Bos grunniens*) at different ages. *Tropical Animal Health and Production*. <https://doi.org/10.1007/s11250-021-02996-6> (IF= 1.893)
  51. Tariq Jamil, Aman Ullah Khan, Muhammad Saqib, Muhammad Hammad Hussain, Falk Melzer, Abdul Rehman, Muhammad Zubair Shabbir, Mumtaz Ali Khan, Shahzad Ali, Asim Shahzad, Ihtasham Khan, Mudassar Iqbal, **Qudrat Ullah**, Waqas Ahmad, Muhammad Khalid Mansoor, Heinrich Neubauer & Stefan Schwarz (2021). Animal and Human Brucellosis in Pakistan. *Frontiers in Public Health*, doi: [10.3389/fpubh.2021.660508](https://doi.org/10.3389/fpubh.2021.660508) (IF=6.461)
  52. Mudassar Nawaz, Ihtasham Khan, Muhammad Shakeel, Arfan Yousaf, Zahid Naseer, Munibullah, Ali Zohaib, Riaz Hussain and **Qudrat Ullah** (2021). Bovine and Caprine Brucellosis detected by Milk Indirect ELISA and Milk Ring Test in Islamabad Capital Territory, Pakistan. *Pakistan Journal of Zoology*. DOI: <http://dx.doi.org/10.17582/journal.pjz/2019.52...> (IF=0.687)
  53. Shabana Naz, Nishat Khan, Arnab Tanweer, Shifa Muazzam, **Qudrat Ullah**, Farhana Asad, Irfan Khattak, Rifat Ullah Khan & Sajjida Batool (2021). Incidence of gastrointestinal parasites in *Pavo cristatus* and comparative efficacy of two broad spectrum anthelmintic drugs under cage system. *Pakistan Journal of Zoology* (IF=0.687)
  54. Tariq Jamil, Khushal Khan Kasi, Falk Melzer, Muhammad Saqib, **Qudrat Ullah**, Muhammad Roidar Khan, Maryam Dadar, Muhammad Haleem Tayyab, Stefan Schwarz and Heinrich

- Neubauer (2020). Revisiting Brucellosis in Small Ruminants of Western Border Areas in Pakistan. *Pathogens* 9: 929; [doi:10.3390/pathogens9110929](https://doi.org/10.3390/pathogens9110929) (IF=4.531)
55. Abdul Hafeez, Syed Adnan Ali Shah, Rifat Ullah Khan, **Qudrat Ullah** & Shabana Naz (2020). Effect of diet supplemented with phytogenics and protease enzyme on performance, serum biochemistry and muscle histomorphology in broilers. *Journal of Applied Animal Research*. 48(1): 326-330. (IF=1.987)
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  57. Abdul Hafeez, Zia Ullah, Rifat Ullah Khan, **Qudrat Ullah** and Shabana Naz (2020). Effect of diet supplemented with coconut essential oil on performance and villus histomorphology in broiler exposed to avian coccidiosis. *Tropical Animal Health and Production*. <https://doi.org/10.1007/s11250-020-02279-6>. (IF= 1.893)
  58. Rafi Ullah, Sarzamin Khan, Rifat Ullah Khan and **Qudrat Ullah** (2020). Does the gradual replacement of spent silkworm (*Bombyx mori*) pupae affect the performance, blood metabolites and gut functions in White Leghorn laying hens? *Research in Veterinary Science*. <https://doi.org/10.1016/j.rvsc.2020.03.009>. (IF=2.554)
  59. Muhammad Zubair, Maqbool Ahmad, Muhammad Kashif Saleemi, Shafia Tehseen Gul, Mushtaq Ahmad, Christopher Joseph Martyniuk, **Qudrat Ullah** & Saqib Umar (2020). Sodium arsenite toxicity on hematology indices and reproductive parameters in Teddy goat bucks and their amelioration with vitamin C. *Environmental Science and Pollution Research*. DOI: <https://doi.org/10.1007/s11356-020-08049-z>. (IF=5.190)
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## **B. Book Chapters**

1. **Qudrat Ullah** (2023). Synchronization of breeding females (Chapter 08). A Handbook of Artificial insemination in small and large ruminants. Pp 33-37. ISBN: 978-969-23492-1-5.
2. Naz S, Chatha AM, Malik S, Iqbal S, Ishaque U, Ullah Q. Eco-Informed Phage Strategies: Integrative Approaches to Animal Health and Antimicrobial Stewardship. InGreen Alternatives to Antibiotics in Animal Health 2026 Jul 2 (pp. 375-390). Singapore: Springer Nature Singapore.
3. Naz S, Chatha AM, Ullah Q, Malik S, Maryam M, Ishaque U. Advancing Animal Nutrition with Probiotics: Targeted Benefits and Pathogen Inhibition Mechanisms. InGreen Alternatives to Antibiotics in Animal Health 2026 Jul 2 (pp. 207-223). Singapore: Springer Nature Singapore.
4. Naz S, Chatha AM, Malik S, Irfan B, Ishaque U, Ullah Q. From Pathogen to Protection: Modern Vaccination Technologies for Reducing Antibiotic Dependence in Animals. InGreen Alternatives to Antibiotics in Animal Health 2026 Jul 2 (pp. 287-304). Singapore: Springer Nature Singapore.
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8. Malik S, Naz S, Ullah Q, Ullah S, Farooq M, Maqbool B, Hussain R, Ullah I, Khan MFU, Khaliq H, Sajid M, Butt W and Siddique I, 2026. Herbal nutraceuticals: Extraction, formulation, therapeutic applications, and toxicological perspectives. In: Ahrar Khan, Kaynat Saeed and Maria Rehman (eds), Natural Products in Modern Medicine: Nutraceuticals, Phytochemicals and Herbal Therapeutics. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 142-151. <https://doi.org/10.47278/book.TL/2026.265>
9. Naz S, Ullah S, Khaliq H, Farooq M, Sajid M, Malik S, Butt W, Siddique I, Eeman A, Ullah Q, Ullah I, Khan MFU and Iqbal S, 2026. Bioinformatics tools for integrating genomic, transcriptomics, and proteomic data in invertebrates. In: Walaa Abdallah Gad, Yi Wu and Saleha Tahir (eds), Reproductive Genetics and Disorders: From Molecular Pathways to Clinical and Veterinary Perspectives. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 153-161. <https://doi.org/10.47278/book.TL/2026.371>
10. Malik S, Naz S, Ullah Q, Ullah S, Ullah I, Khan MFU, Farooq M, Butt W, Khaliq H, Siddique I, Hussain R and Sajid M, 2026. Epidemiological insights into the trends

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11. Naz S, Ullah S, Ullah Q, Farooq M, Khan MS, Ramzan A, Butt W, Siddique I, Khaliq H, Abbasi M, Sajid M, Ullah I and Khan MFU, 2026. Ecotoxicological impacts of ferterra (Chlorantraniliprole) on freshwater fish: behavioural, histopathological, and genotoxic evaluation. In: Zaib un Nisa, Majeeda Rasheed, Warda Mustfa and Saleha Tahir (eds), *Sustainable Fisheries and Aquaculture: Integrating Technology, Health, and Environmental Stewardship*, Unique Scientific Publishers, Faisalabad, Pakistan, pp: 260-267. <https://doi.org/10.47278/book.TL/2026.367>
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  13. Naz S, Ullah Q, Sajid M, Khaliq H, Farooq M, Butt W, Ullah I, Khan MFU, Siddique I, Hussain R, Jabeen I and Ullah S, 2026. Smart aquaculture for sustainable food production: innovations in biosensing, electronic monitoring, and automated management systems. In: Zaib un Nisa, Majeeda Rasheed, Warda Mustfa and Saleha Tahir (eds), *Sustainable Fisheries and Aquaculture: Integrating Technology, Health, and Environmental Stewardship*, Unique Scientific Publishers, Faisalabad, Pakistan, pp: 278-285. <https://doi.org/10.47278/book.TL/2026.369>
  14. Naz S, Ullah Q, Ullah S, Farooq M, Ullah I, Khan MFU, Siddique I, Butt W, Siddique A, Khaliq H, Akram N and Sajid M, 2026. Emerging nanotechnology applications for sustainable animal health, environmental remediation, and aquaculture development. In: Mughees Aizaz Alvi, Majeeda Rasheed, Shazia Perveen and Ghunwa Javed (eds), *Biotechnology and Nanotechnology in the 21st Century: From Precision Medicine to Sustainable Development*. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 446-454. <https://doi.org/10.47278/book.TL/2026.370>
  15. Muhammad Farooq, Ifra Siddique, Amina Nabi, Qudrat Ullah, Sadia Siddique, Muhammad Naseer, Ayesha Younis, Muhammad Waseem, and Waleed Butt. "Targeted delivery systems for site-specific probiotic action." In *Advances in Probiotic Delivery Systems*, pp. 459-488. Academic Press, 2026. <https://doi.org/10.1016/B978-0-443-27594-4.00006-1>.
  16. Ifra Siddique, Muhammad Farooq, Qudrat Ullah, Amina Nabi, Munazzah Siddique, Sadia Siddique, Muhammad Naseer, Ayesha Younis and Waleed butt. Future trends and direction in AI and ML for food science and bioprocess development. *Artificial Intelligence in Food Science: Transforming Food and Bioprocess Development*. pp. 811-826. Academic Press, 2025. <https://doi.org/10.1016/B978-0-443-26468->

17. Saima Naz, Ahmad Manan Mustafa Chatha, Qudrat Ullah, Haseeb Khaliq, Muhammad Sajid, Muhammad Farooq, Iqra Ashraf, and Ayesha Eeman (2025). Integrative approaches: genomic, transcriptomic, and proteomic data in vertebrate studies. In: Kausar R, Nisa ZU, Jamil M and Bashir I (eds), Integrated Health and Sustainability: Plants, Wildlife, and Genetic Resilience. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 218-228. <https://doi.org/10.47278/book.HH/2025.99>
18. Naz S, Malik S, Chatha AMA, Ullah Q\*, Jamil T, Khaliq H, Sajid M, Iqbal S, Yasin F (2025). Epidemiology and Surveillance of Bacterial, Viral, Fungal, and Parasitic Diseases in Fish: Challenges and Advances in Aquaculture. In: Trends in Infectious Diseases of Animals, Eagle Scholars Publishers, Faisalabad, Pakistan, Vol. 1. <https://doi.org/10.5281/zenodo.15809232>

### **C. Abstracts/ Conference Proceedings**

1. Rahat Ullah Khan, **Qudrat Ullah**, Muhammad Zahoor Khan, Momin Khan, Aamir Sohail (2023). *In vitro* and *in vivo* effects of conventional and chitosan nanoparticles encapsulated miltefosine drugs for the treatment of cutaneous leishmaniasis. The 2<sup>nd</sup> International Electronic Conference on Biomedicines, March 1-31/ Online.
2. Tanzeela Nawaz, Shaheen Bibi, Ghulam Abbas, **Qudrat Ullah\***, Aziz Uddin, Muhammad Zahoor Khan, Sajid Ul Ghafoor, Sadia Tabassum (2023). Association of genetic mutation in mitochondrial transfer RNA gene with polycystic ovarian syndrome (PCOS) In human females. in Proceedings of the 2nd International Electronic Conference on Biomedicines, 1–31 March 2023, MDPI: Basel.
3. Rahat Ullah Khan, **Qudrat Ullah\***, Muhammad Zahoor Khan, Momin Khan, Aamir Sohail (2023). *In vitro* and *in vivo* effects of conventional and chitosan nanoparticles encapsulated miltefosine drugs for the treatment of cutaneous leishmaniasis. In Proceedings of the 2nd International Electronic Conference on Biomedicines, 1–31 March 2023, MDPI: Basel, Switzerland, doi:10.3390/ECB2023-14334
4. Muhammad Safdar, Huma Jamil, **Qudrat Ullah\***, Muhammad Zahoor Khan, Fizzah Laeeq Lodhi, Babar Maqbool (2023). Sero-epidemiology and Associated Risk Factors of Caprine Brucellosis in District Muzaffar Garh, Punjab. In the proceedings of 6th Int, Conf. & Industrial Exhibition on Dairy Sci Park, March 20-21, 2023; The Islamia Univ Bahawalpur, Pakistan.
5. **Qudrat Ullah**, Tariq Jamil, Falk Melzer, Muhammad Saqib, Muhammad Hammad Hussain, Huma Jamil, Muhammad Amjad Iqbal, Usman Tahir, Shakeeb Ullah, Zafar Iqbal Qureshi, Stefan Schwarz & Heinrich Neubauer (2020). Seroprevalence and molecular detection of brucellosis in small ruminants at organized livestock farms in Punjab, Pakistan. In Proceedings of the 6<sup>th</sup> joint Conference of the DGHM and VAAM, University of Leipzig, Leipzig, Germany, March 08-11, 2020.
6. Tariq Jamil, **Qudrat Ullah**, Falk Melzer, Muhammad Saqib, Muhammad Hammad Hussain, Usman Tahir, Heinrich Neubauer & Stefan Schwarz (2020). Seroprevalence and molecular detection of small ruminant brucellosis in Pakistan. In Proceedings of the 8<sup>th</sup>

- Leipziger Doktorandenforum. Faculty of Veterinary Medicine, University of Leipzig, Leipzig, Germany, February 13, 2020.
7. Tariq Jamil, Falk Melzer, Muhammad Saqib, **Qudrat Ullah**, M. Roidad Khan, Muhammad Haleem Tayyab & Heinrich Neubauer (2019). An update for brucellosis in nomadic ruminants of Western Pakistan. In Proceedings of the Junior Scientist Zoonosis Meeting, Berlin, Germany, June 20-22, 2019.
  8. **Qudrat Ullah\***, Muhammad Safdar, Huma Jamil, Laeeq Akbar Lodhi, Shakeeb Ullah, Muhammad Zubair, lahtasham Khan, Arsalan Said, Ishaq & M. Roidad Khan (2019). Sero-epidemiology of caprine brucellosis in district Dera Ghazi Khan, Punjab. In Proceedings of the *1<sup>st</sup> International Conference on "Agricultural and Biological Sciences" Haripur, Pakistan*, March 27-30, 2019.
  9. **Qudrat Ullah\***, Asaf Khan, Farhana Maqbool, Shakeeb Ullah, Azizullah Noor, Farooq Khan, Arsalan Said, Ishaq & Kifayat Ullah (2019). Microscopy based prevalence of Leishmaniasis in local residents and Afghan refugees of district Peshawar, Khyber Pakhtunkhwa. In Proceedings of the *1<sup>st</sup> International Conference on "Agricultural and Biological Sciences" Haripur, Pakistan*, March 27-30, 2019.
  10. **Qudrat Ullah\***, Huma Jamil, Zafar Iqbal Qureshi, Muhammad Saqib, lahtasham Khan, Rifat Ullah Khan, Muhammad Zubair, Qudratullah, Hosny El-Adawy & Heinrich Neubauer (2019). Real- time qPCR-based detection of *C. burnetii* DNA in ticks collected from sheep and goats of Punjab, Pakistan. In Proceedings of the *4<sup>th</sup> International Conference on Agriculture, Food and Animal Sciences (ICAFAS - 2019), SAU Tandojam, Pakistan*, January 21-22, 2019.
  11. **Qudrat Ullah\***, Huma Jamil, Zafar Iqbal Qureshi, lahtasham Khan, Rifat Ullah Khan, Muhammad Zubair, Ghulam Hussain Dilbar, Qudratullah & Inamullah Wazir (2019). Sero-epidemiology and potential risk factors of brucellosis in crossbred dairy cattle kept at private farms of Punjab, Pakistan. In Proceedings of the *4<sup>th</sup> International Conference on Agriculture, Food and Animal Sciences (ICAFAS - 2019), SAU Tandojam, Pakistan*, January 21-22, 2019.
  12. Muhammad Farooq, **Qudrat Ullah\*** & Muhammad Haroon (2019). Improvement of libido and semen quality of Sahiwal bulls through flaxseed oil dietary supplementation. In Proceedings of the *4<sup>th</sup> International Conference on Agriculture, Food and Animal Sciences (ICAFAS - 2019), SAU Tandojam, Pakistan*, January 21-22, 2019.
  13. Abdul Ghaffar, Huma Jamil, **Qudrat Ullah\***, Muhammad Zubair, Muhammad Farooq, Muhammad Haroon & Ali Murtaza (2019). Effect of dietary propylene glycol supplementation on blood metabolites and hormonal level of Nili-Ravi buffalo heifers. In Proceedings of the *4<sup>th</sup> International Conference on Agriculture, Food and Animal Sciences (ICAFAS - 2019), SAU Tandojam, Pakistan*, January 21-22, 2019.
  14. Muhammad Haroon, Muhammad Farooq & **Qudrat Ullah\*** (2019). Study on effects of administration of propylene glycol on blood metabolites and reproductive performance of local Achai breed cattle. In Proceedings of the *4<sup>th</sup> International Conference on Agriculture, Food and Animal Sciences (ICAFAS - 2019), SAU Tandojam, Pakistan*, January 21-22, 2019.

## RESEARCH PROJECTS WON AS PRINCIPAL INVESTIGATOR (PI)

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Funding Agency: Higher Education Commission (HEC), Pakistan

Program: Start-up Research Grant Program (SRGP)

Project completion date: 05-07-2022

Project Title: "Sero-epidemiology of Chlamydomonas abortus infection and its association with Reproductive disorders in small ruminants at three districts of Khyber Pakhtunkhwa, Pakistan"

Principal Investigator (PI): Dr. Qudrat Ullah

Co-PI: Dr. Alam Zeb Khan

|                           |             |
|---------------------------|-------------|
| Total Funds (in million): | 0.5 million |
|---------------------------|-------------|

|                                           |          |
|-------------------------------------------|----------|
| Proposed Duration of Project (in months): | 6 Months |
|-------------------------------------------|----------|

### Conferences & Seminars Attended

- The 3rd International Electronic Conference on Cells/ 25-27 March, 2025/ Online MDPI Sciforum
- The 3rd International Electronic Conference on Animals/ 12-14 March, 2025/ Online MDPI Sciforum
- The 3rd International Online Conference on Clinical Medicine/ 17-19 November, 2025/ Online MDPI Sciforum
- The 3rd International Online Conference on Toxins/ 10-12 September, 2025/ Online MDPI Sciforum
- The 2nd International Electronic Conference on Toxics/ 8-10 September, 2025/ Online MDPI Sciforum
- The 2nd International Electronic Conference on Antioxidants/ 7-9 April, 2025/ Online MDPI Sciforum
- One day seminar on "Malaria ends with Us: Reinvest, Reimagine, Reignite" at CUVAS
- One day seminar on "Zoonoses Day" Zoonotic Diseases and Public Health on 11th July, 2025 at CUVAS
- The 1st International Electronic Conference on Toxics, March 20-22, 2024/ Online
- The 2<sup>nd</sup> International Electronic Conference on Biomedicines, March 1-31, 2023/ Online.
- 6<sup>th</sup> International Conference & Industrial Exhibition, Islamia University Bahawalpur, Pakistan, March 1-31, 2023.
- The 2<sup>nd</sup> International Electronic Conference on Toxins, July 14-28, 2023/ Online.
- Lumpy Skin Disease Symposium, March 1-31, 2023/ Online.
- 4<sup>th</sup> World Sepsis Congress: One Global Health Threat; Sepsis, Pandemics, and Antimicrobial Resistance, April 25-26, 2023.
- "1st International Conference on Agricultural and Biological Sciences at University of Haripur, Pakistan, March 27-30, 2019"
- "4th International Conference on Agriculture, Food and Animal Sciences (ICAFAS - 2019) on January 21 - 22, 2019 at Sindh Agriculture University, Tandojam, Pakistan"

- Two days "International Conference on Dairy Animal Health Challenges (DAHC-2018)"
- Two days "International Livestock Dairy and Poultry Congress (ILDPC)"
- Two days "International Symposium on Dairy Animal Reproduction (ISDAR)"
- One day "Agro-Vet Conference"
- Two-day Workshop on "Research Planning and Synopsis Writing"
- 3<sup>rd</sup> Annual Workshop on "Scientific Writing and Plagiarism"
- One day seminar on "Epidemiology and Control of Brucellosis"
- One day seminar on "Epidemiology and Control of Mastitis"
- One day seminar on "Epidemiology and Control of Depression"
- One day seminar on "Vaccination and Immunogenesis"
- One day seminar on "Dairy Business Potential in Pakistan"
- One day seminar on "PPR: Past, Present & Future in Pakistan"
- One day seminar on "Future Challenges in DVM Teaching"
- One day seminar on "Glanders: Past, Present & Future"
- One day seminar on "Epidemiology and Control of Crimean-Congo Haemorrhagic Fever Virus"

### **Trainings and Workshops Attended**

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- **ORGANIZED** Three-Day Training Workshop of Artificial Insemination Technicians (AITs) in collaboration with *Action for Humanity (AFH)*. Department of Theriogenology, CUVAS, June 19-21, 2026
- **ORGANIZED** Two Days International Training Workshop on Utilization of IVF and Embryo Transfer Technologies for Enhancing the Genetic Potential of Livestock in Pakistan, Department of Theriogenology, CUVAS, October 23-24, 2025
- **ORGANIZED** Two days Hands-on Training Workshop on Equine Lameness, Gaseous Anesthesia, Ultrasonography and Radiology, CUVAS, Bahawalpur, August 20-21, 2025
- **ORGANIZED** One Day National Workshop on Reproductive Ultrasonography in Small Ruminants, Department of Theriogenology CUVAS, April 17, 2025
- One month training entitled "National Outreach Program for Faculty" organized by National Academy of Higher Education (NAHE), HEC, Pakistan (April 21, 2025 to May 20, 2025)
- One day international workshop on "Camel Milk in Pakistan; Exploring Potential, Future prospects, Research and Investment opportunities on February 17, 2025 at CUVAS"
- One week training at Semen Production Unit (SPU), Karaniwala, Bahawalpur (April 22-26, 2024)
- One day hands on training workshop on "Laparoscopic Artificial Insemination in Goats" (March 16, 2022)
- One month & seven days virtual Training on "Biological Waste Management for KP Region" (3rd Feb to 10th March 2021)

- Five days Training Workshop on "Reproductive Ultrasonography in Domestic Animals"
- 4 Months Internship at AL-RIZA Dairy Farm, Gujranwala
- Two days Training Workshop on "Buffalo Calf Raising Centre at BRI, Pattoki"
- One day Training Workshop on "Innovations in Reproductive Management of Dairy Animals"
- One day Training Workshop on "Applications of Diagnostic Ultrasound in Animals Reproduction"
- One day Training Workshop on "Broiler Flock Control System"
- One day Training Workshop on "Layer Flock Control System"
- Workshop on "Creative Writings and Narrative Construction"

### **Oral Presentations**

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- One Day National Workshop on Reproductive Ultrasonography in Small Ruminants, Department of Theriogenology CUVAS, April 17, 2025/ (Speaker/ Oral presentation)
- A Seminar on "Infertility in Dairy Cattle" under CUVAS Seminar Series, CUVAS, Bahawalpur, August 13, 2025/ (Speaker/ Oral presentation)
- A Seminar on "Ovulation Synchronization in Dairy Cattle" under CUVAS Seminar Series, CUVAS, Bahawalpur, August 25, 2024/ (Speaker/ Oral presentation)
- The 2nd International Electronic Conference on Biomedicines, March 1-31, 2023/ Online (Speaker/ Oral presentation)
- 6th International Conference & Industrial Exhibition, Islamia University Bahawalpur, Pakistan, March 1-31, 2023 (Speaker/ Oral presentation)