



1. Name: Dr. Muhammad Khurram Shahzad

- DVM, M.Phil PhD (UVAS)
- Assistant Professor
- +923004722239
- khurramshahzad@cuvas.edu.pk

2. Biography: Dr. Muhammad Khurram Shahzad serves as an Assistant Professor (BPS-19) in the Department of Physiology & Biochemistry, Faculty of Biosciences, at Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur, Punjab, Pakistan, since April 2024. He earned his PhD in April 2021 from the University of Veterinary and Animal Sciences Lahore, with a focus on Reproductive Physiology and Endocrinology.

With over two years of teaching experience at renowned Pakistani institutions, Dr. Shahzad has held positions at the University of Agriculture, Dera Ismail Khan; Riphah College of Veterinary Sciences, Lahore; Nur International University, Lahore; and Ghazi University, Dera Ghazi Khan. He also worked as a visiting scientist at the Wisconsin National Primate Research Center, University of Wisconsin, Madison, USA, under the HEC International Research Support Initiative Program (IRSIP) in 2019. Additionally, he served as Incharge of the Department of Physiology and the Department of Anatomy and Histology at the University of Agriculture, D.I Khan.

3. Areas of Interest/Research Interest:

- Reproductive Physiology
- Endocrinology
- Gene expression
- ELISA
- Histopathology
- Semen Cryopreservation

4. Publications:

- Waqas, M., Shahzad, Q., Wadood, A.A., Ashraf, T., Husnain, A., **Shahzad, M.K.**, Xu, H., Pu, L. and Lu, Y., 2026. Faster-developing buffalo embryos produced in vitro demonstrate higher quality, enhanced pregnancy rates, and distinct transcriptome profile. *Theriogenology*, p.117891.
- Anwar, M.N., Akhtar, R., Abid, M., Khan, S.A., Rehman, Z.U., Tayyub, M., Malik, M.I., **Shahzad, M.K.**, Mubeen, H., Qadir, M.S. and Hameed, M., 2022. The interactions of flaviviruses with cellular receptors: Implications for virus entry. *Virology*. 568: 77-85
- **Shahzad, M.K.**, Majeed, K.A., Yousaf, M.S., Andrabi, S.M.H., Rabbani, I., Rashid, M.A., Tahir, S.K., Mughal, D.H., Zaneb, H., Abbas, S., and Rehman H., 2022. Study on role of kisspeptin in reproductive development and inter-relationship with endocrine markers for Nili-ravi buffalo bulls (*Bubalus bubalis*). *J Anim Plant Sci*. 32(2): 345-352

- **Shahzad, M.K.**, Rabbani, I., Andrabi, S.M.H., Zaneb, H., Yousaf, M.S., Majeed, K.A., Tahir, S.K., Ahmad, S., and Rehman, H. 2021. Season influence on serum kisspeptin level and its association with hormonal levels and semen kinematics of Buffalo bulls (*Bubalus bubalis*). Vet Res Forum. 12 (3):283-289
- Tahir, S.K., Yousaf, M.S., Ahmad, S., **Shahzad, M.K.**, Khan, A.F., Raza, M., Majeed, K.A., Khalid, A., Zaneb, H., Rabbani, I., and Rehman, H. 2019. Effects of Chromium-Loaded Chitosan Nanoparticles on the Intestinal Electrophysiological Indices and Glucose Transporters in Broilers. Animals. 9(10): 819.
- Jeelani, S. K. Tahir, I. Rabbani, M. S. Yousaf, **M. K. Shahzad**, and H. Rehman (2019). Comparative effect of Fructo-oligosaccharides and manno-oligosaccharide on serum biochemical parameters in high-fat fed rats. Proceedings off 39th Pakistan International Congress of Zoology, Peshawar, Pakistan.pp:15.
- Rehman, H., **Shahzad, M.K.**, Rabbani, I., Zaneb, H., Yousaf, M.S., Majeed K.A., Imran, M., Tahir, S.K. 2019. Potential role of Kisspeptin and Cytochrome P mRNA genes in pubertal development and spermatogenesis in buffalo bulls (*Bubalus bubalis*). BSAS 75th annual Conference held at Edinburgh International conference center 9-11 April 176.
- Khalid, R., Tahir, S.K., Rabbani, I., Rehman, H., Yousaf, M.S., Majeed K.A., Saeed, A.A., Ahmad, S., **Shahzad, M.K.**, and Chughtai, A. 2017. Effect of Zinc and protexin supplementation alone and in combination on the electrophysiological indices of jejunal mucosa in broilers reared under cyclic heat stress. International conference on recent advances in clinical research, December 19-20, Lahore, Pakistan.
- **Shahzad, M.K.**, Fayyaz, M.H., Sattar, A., Ahmad, M., Mehmood, M.U., Tipu, M.Y. 2016. Comparative effect of Alpha Lipoic Acid and Butylated hydroxytoulene on post thaw quality of buck semen. 18th International Congress on Animal Reproduction, June 26-30, Paris, France.
- Kiran, M., Haque, S.E., Waheed, U., **Shahzad, M.K.**, Rafique, M.K., Shahzad, A.H. 2017. The evaluation and future of one heath. One health international Conference. November 13-15, Jhang, Pakistan.

1. TRAININGS/ COURSES/ CONFERENCES

Trainings:

- Organizer and Resource person at Hands on Training on Basic use of Endnote in Research held on April 29,2025 at Cholistan University of Veterinary and Animal Sciences Bahawalpur
- Vector Surveillance Research Training " held on Dec 3rd – 5th , 2025 at the University of Veterinary & Animal Sciences-Lahore.

- Training session of STEM Faculty Training under PAK-UK Education Gateway held on October 28-30, 2025 at Cholistan University of Veterinary and Animal Sciences Bahawalpur
- Research Methodology course 2025 Organized by FC college in July 2025.
- Six weeks online course on “Practical animal nutrition for augmenting livestock and poultry productivity” by Agmooc from July 11 - August 31, 2023
- Six weeks online course on Management of Metabolic and Production Disorders in Cattle by Agmooc 26 July 2022
- Six weeks online course on Current trends in treatment and control of parasitic diseases of livestock and poultry by Agmooc from 19th December 2023 to 9th February 2024
- “Mapping of DVM curriculum for OIE compliance and integrated learning interventions” on May 7th to 11th by IVPD, UVAS Lahore
- 5 days ABM Biorisk management basic course October 12-16, 2020 by Health Security Partners
- 12 hours online course on Foot and Mouth Disease investigation training from European commission for the control of Foot and Mouth Disease in February 2019
- Radiation Safety for Radiation workers on May 8, 2019 from University of Wisconsin, Madison
- 4 day Online Certificate Course on Basics of Small Animal Laparoscopy 24-27 May 2020 by Department of Veterinary Surgery and Radiology Mumbai Veterinary College India
- 2nd international workshop on basic mechanisms of disease and poultry pathology
- National Workshop on “Pathological readings for clinicians Part II” 22nd -25th October 2018 (University of Veterinary and Animal sciences, Lahore)
- Workshop on “Scientific writing” on April 20, 2018 by Microbiology Journal Club UVAS Lahore
- Halal foods safety standards April 18, 2018 organized by Punjab Halal Development Agency at Faletti's Hotel Lahore
- Tools used for next generation sequencing based micro biomes and sequencing data analysis
- Fertility signals in dairy signals
- Two days Training “How to use statistical tools in research publication” 9th- 10th August 2016 at University of Veterinary and Animal Sciences Lahore.
- Online Course on “Laboratory safety” August 9, 2016- September 1,2016 by Virtual Education Project Pakistan (VEPP)
- Three Month Amal Career Prep Fellowship at Amal Academy Lahore on May 5, 2015.
- Workshop on LaTeX
- “Use of endnotes”, 2nd April, 2014 (University of Veterinary and Animal sciences, Lahore)
- “Establishing and leading a research lab” May 02-03, 2016 at COMSATS Lahore
- Three Days training on “Research methodologies”
- “Hazard identification and risk assessment” April 18, 2015 by Pak Safety Solution Lahore
- Intensive practical training on “Laboratory techniques in microbiology” organized by January 27th to February 1st in Department of of Microbiology, UVAS Lahore
- “Complement Fixation Test”, 9-10 April, 2014 (University of Veterinary and Animal sciences, Lahore)
- “Clinico-Pathological Investigation of Field Diseases”, 3rd April, 2014 (University of Veterinary and Animal sciences, Lahore)
- Disease surveillance, diagnosis & reporting
- “Methods Used in Dog Sterilization”, 21 August 2014 (University of Veterinary and Animal sciences, Lahore)
- Informatics (Microsoft office) for writing manuscripts

- National workshop on “Basic tools in bioinformatics” 29th November, 2017 by Institute of industrial Biotechnology, GC University, Lahore
- Innovations in reproductive management of dairy animals

CONFERENCES AND SEMINARS

- Bovine udder health symposium 2019
- Awareness seminar on “Potentiated probiotics as alternative to antibiotic growth promoters for healthy broiler meat” January 26, 2018 by Department of Anatomy and Histology UVAS Lahore
- International buffalo congress February 18-19 at PC Lahore.
- International halal conference on April 17-18, 2018 at Faletti's Hotel Lahore
- International conference on recent advances in clinical research
- National conference on cutting-edge techniques in molecular research
- HHRD 6h Annual Conference on “Role of social sector and rural community in Pakistan” December 16-17, 2014 by Livestock and Dairy Development at UVAS Lahore
- International symposium on dairy animal reproduction on March 30-31, (ISDAR 2015) by University of Veterinary and Animal Sciences Lahore

Memberships

- Global Outreach - Contributing Member of the American Society for Microbiology
- Lifelong member of Society for Animal Reproduction Pakistan (SARP)
- Registered as “Registered Veterinary Medical Practitioner (RVMP)” as well as “Registered Veterinary Medical Faculty (RVMF)” with Pakistan Veterinary Medical Council (PVMC)
- Alumni of University of veterinary and Animal Sciences Lahore

Additional Duties

- **Additional Director:** Semen Production Unit CUVAS (19-01-2026 to date)
- **Assistant warden:** PG Hostels and Boys hostel 2 CUVAS (30-04-2026 to date)
- **Deputy controller of examination:** Office of the controller of examination CUVAS (31-12-2025 to 24-05-2026)
- **Assistant Director:** Central Diagnostic Laboratory CUVAS (26-03-2025 to 29-04-2026)
- **Deputy Director:** Dairy Animal Teaching and Research Centre CUVAS (07-05-2026 to 04-06-2026)
- **Farm Manager:** Dairy Animal Teaching and Research Centre CUVAS (05-06-2026 to 10-06-2026)