MUHAMMAD KHURRAM SHAHZAD

+923004722239 • Khurram142@gmail.com • pk.linkedin.com/in/Khurram142• Age:36 years

UNIVERSITY OF VETERINARY AND ANIMAL SCIENCES Lahore, Pakistan
Doctor of Philosophy, Physiology 2016-2021
– Collaborated with researchers in electrophysiological studies
– Reared and handled lab animals and primates for different trials
– Learned and implemented lab safety rules in laboratory

UNIVERSITY OF VETERINARY AND ANIMAL SCIENCES Lahore, Pakistan
Master of Philosophy, Theriogenology 2013-2015
- Managed one-week training on reproductive ultrasonography
- Collaborated with UVAS team for screening of animals at LES Khizarabad, Sargodha
- Collaborated with UVAS 24/7 extension service team for field cases

UNIVERSITY OF VETERINARY AND ANIMAL SCIENCES Lahore, Pakistan
Doctor of Veterinary Medicine 2008-2013
- Lead class groups for clinical and different field activities regarding livestock management
- Selected out of 250 students to work at in Jassar farms and Dairy hub Nestle Pakistan Pvt Ltd
- Lead class group for surgery of equine and canine

Experience

CHOLISTAN UNIVERSITY OF VETERINARY AND ANIMAL SCIENCES Bahawalpur, Pakistan
Assistant Professor: April 2024 – till date
- *Teaching:* Conduct classes for DVM, BS Biochemistry, BS food science, M.Phil and diplomas students
- *Examination and invigilation:* Set, conducted and checked papers along with class quiz, evaluate the presentation skills of students
-*Extracurricular Activities*: Assistant Director at University Diagnostic Laboratory, Laboratory Incharge for the Department of Physiology and Biochemistry, Secretary to the committee for representation of University at national and international Expo/Forums

UNIVERSITY OF AGRICULTURE Dera Ismail Khan, Pakistan
Assistant Professor: March 2022 – April,2024
- *Teaching:* Conduct classes for DVM, BS MLT, Diplomas and M.Phil students of zoology
- *Incharge/Head of Department:* Served as Incharge Department of Anatomy and Histology, and Head of Department of Physiology

-*Extracurricular Activities*: Arrange Field visits and tour for students regarding their education and recreational activities

NUR INTERNATIONAL UNIVERSITY Lahore, Pakistan
Assistant Professor (Visiting): Nov 2021 – March 2022
- *Teaching:* Conduct classes using multimedia and white board about the Human Physiology for masters students having background of Medical, dental, Allied Sciences graduates
- *Examination and invigilation:* Set, conducted and checked papers along with class quiz, evaluate the presentation skills of students

RIPHAH COLLEGE OF VETERINARY SCIENCES Lahore, Pakistan
Assistant Professor: Nov 2021 – December 2021
- *Teaching:* Conduct classes using multimedia and white board for undergraduate students
- *Examination and invigilation:* Set, conducted and checked papers along with class quiz

WISCONSIN NATIONAL PRIMATE RESEARCH CENTER Madison, USA
A research center helps in improvement of human and animal health and quality of life through research
Visiting Scientist: April 2019 – October 2019
- *Lab activities:* Practiced *in situ* hybridization and immunohistochemistry for detection of gene and their proteins on brain tissue

- *Stem cell culture and calcium imaging:* Observed the generation of GnRH neuron and response after giving some secretagogues by calcium imaging

AMAL ACADEMY Lahore, Pakistan

Educational startup funded by Stanford University that teaches professional skills to students and corporations

Career-Prep Fellow: January 2015 – April 2015

Skills development: Invested 150 hours in order to develop business skills (e.g., communication, leadership, problem solving, teamwork, etc.) that will help me to make a deeper impact on the job

Academic Activities

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 (IF=2.9).
- 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 (IF= 3.616)
- **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 (IF= 0.490)
- **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 (IF= 1.054)
- 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. (IF = 1.832)
- 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 9-11 April, Edinburgh, UK. 176.
- A. 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 March 4-6, Peshawar, Pakistan.pp:15.
- 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.

RESEARCH PROJECTS

- Conducted research on neuroendocrine role of Kisspeptin on hypothalamic pituitary-gonadal axis of buffalo bulls
- Primer optimization and analyzed gene expression on real time PCR
- Performed hormonal as well as enzymatic analysis by using ELISA kit and chemicals

- Analyzed semen on conventional as well as fluorescent microscope
- Conduct research entitled "Comparative effect of Alpha lipoic acid and Butylated hydroxytoluene on post thaw quality of buck semen"
- Collaborated with colleges on the research work regarding synchronization in Buffalo and equines as well improvement of semen quality of dog and buffalo bull semen
- Performed duties on outdoor clinic for reproductive as well as other clinical cases in ruminants
- Demonstrated silage making process, vaccination, deworming and treatment in field

LETTER OF APPRECIATION

- Appreciation letter by Pakistan Veterinary Medical Council for provision of inputs and efforts in mapping and updating the DVM curriculum on modern and need based lines on January 14, 2019s

Honors and Awards

ACADEMIC SCHOLARSHIPS

- Awarded scholarship under International Research Support Initiative Program IRSIP 42 BMS 47
- Awarded Scholarship under HEC Indigenous Ph.D. 5000 fellowship
- Received full merit-based PEEF Scholarship from University of Veterinary & Animals Sciences
- Won merit scholarship from university for maintaining good CGPA in DVM

PRIME MINISTER'S AWARD

- Received merit-based laptop award from prime minister of Pakistan (2014)

SPORTS

- Winners of university sports in 2016 as a team player of Football and Cricket post-graduation Team

Trainings and Conferences

TRAININGS

- Resource Person at Hands on Training on Basic Use of Endnote in Research held Cholistan University of Veterinary and Animal Sciences Bahawalpur on April 29,2025
- 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 2014 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 promotors 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

MEMBERSHIP

- 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

- *Skills:* Microsoft office, ultrasonography, basic microbiological technicalities, data recording and analysis, good management and presentation, teamwork
- *Certifications:* Microsoft office, microbiological techniques disease surveillance, reporting and reproductive management
- *Interests:* Travelling, extension work, and internet surfing, sociality