

CURRICULUM VITAE

PROFESSOR DR. SHER BAHADAR KHAN
PH.D, MPH, M. Phil, DVM

PHILOSOPHY: My unwavering dedication to excellence in Epidemiology, Animal Health research, and Surveillance, and effective dissemination of my knowledge strongly aligns with the mission and vision of Food and Agriculture Organization (FAO). I am committed to contributing to sustainable development and strengthening epidemiological approaches through interdisciplinary collaboration, scientific innovation and evidence-based practices. I possess the ability to embrace diverse challenges and work beyond conventional boundaries to advance the principles of epidemiology in One Health through team work, effective communication particularly in the interconnected fields of animal health, public health and environment health. So, here's what I'm going to do.....

FULL NAME:	SHER BAHADAR KHAN
FATHER'S NAME:	BAHADAR KHAN
DATE of BIRTH:	25/12/1978
PERMANENTADDRESS:	Mahalla Fazli Moula khan Near Govt., High School, Tehsil Takht bhai District Mardan, KPK, Pakistan
E-MAIL: s	herbahadar@awkum.edu.pk, Principalcvs@awkum.edu.pk, drsher@aup.edu.pk
LinkdIn:	**Sher Bahadar khan**
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EDUCATION:

S. No.	Degree/certificate	Institute/University	Session
1	PhD (Epidemilogy)	Huazhong Agriculture University, Wuhan, China	2012-2016
2	MPH	Institute of Higher Studies and Public Health	2019-2021
3	M.Phil (Veterinary Microbiology)	University of Veterinary and Animal Sciences, Pakistan	2006-2008

4	DVM	Sindh Agriculture University, Pakistan	1998-2003
5	F.Sc (pre medical)	Govt; Postgraduate College, Mardan	1994-1996
6	SSC (Science)	Govt; High School, Takht Bhai, Mardan	1992-1994

PhD THESIS TITLE:

Population Biology of Food borne pathogenic *E. coli* and *Salmonella* along the Production and Supply Chain of Pork

AWARDS:

1. Patent awarded by Germany "A system for molecular characterization of Toxoid vaccine development of Clostridium Perfringens".
2. Centre of Excellence award by Health Security Partners
3. Presidential Award "The president Cup" of Huazhong Agriculture University, Wuhan, China.
4. Chinese Govt; Scholarship for Ph.D study program
5. Govt; of NWFP Scholarship for DVM degree program

WORK EXPERIENCE: 21 Years plus

S. No	Designation	Organization	Period
1	Professor	The University of Agriculture, Peshawar	October 1st , 2026 till date
1	Controller of Examinations	Management and supervision of smooth, fair, and transparent conduct of examinations and assessment processes of Abdul Wali Khan University Mardan .	April 15, 2025 to July 15, 2025
2	Principal	Administratively controlling the entire set up of College of Veterinary Sciences, Abdul Wali Khan University Mardan (AWKUM), supervising the overall teaching, research, planning & development, academic collaboration, national & International collaboration, administrative and financial activities.	September 13, 2022 till date

3	Professor	College of Veterinary Sciences, Abdul Wali Khan University Mardan. Teaching of Microbiology subjects & Supervision of undergraduate and postgraduate research projects, submission and implementation of research projects and publications of research articles.	September 7, 2022 till September 30, 2026
4	Associate Professor	Teaching of Microbiology subjects to undergraduates and postgraduates at Animal Health Department, The University of Agriculture, Peshawar, Supervision of undergraduate and postgraduate research projects, submission and implementation of research projects and publications of research articles.	March 4, 2022 to September 6, 2022
5	Assistant Professor	Do	May 13, 2014-March 4, 2022
6	Lecturer	Do	May 12, 2012 to May13, 2014
7	Senior Research Officer	Brucellosis Section of Veterinary Research Institute Peshawar, involved in the Research and diagnostic work on brucellosis, its prevalence, epidemiology studies, prevention and control strategies in surrounding areas according to the FAO Protocol.	January 5, 2011-May 11, 2011
8	Veterinary Officer Research	Pathology & Bacteriology Section of Veterinary Research Institute Peshawar, involved in the Research and diagnostic work on bacterial and viral diseases, its prevalence, epidemiology studies, prevention and control strategies in surrounding areas according to	June 18, 2004 to January 5, 2011

the FAO Protocol.

INDUSTRY EXPERIENCE:

1. Consultancy on Vaccines, Probiotics and other veterinary drugs/products
2. Consultant Microbiology laboratory establishment with different organizations
3. Visiting consultant to different livestock and poultry farms

ADDITIONAL QUALIFICATIONS/SKILLS:

- Advanced Veterinary Microbiology knowledge with foundation of Bacteriology and Mycology, Antimicrobial resistance, Vaccinology, Molecular techniques, Sequencing and Bioinformatics
- Proven experience with animal diseases surveillance, diagnosis and epidemiology
- Updated of all current scientific knowledge particularly with research in probiotics & vaccine testing and other quality control analysis
- Have the ability to analyze customer/Industry needs in veterinary diseases diagnosis and other zoonotic diseases & propose solutions for health issues.
- Self-motivated & team player & able to work in Multi-Cultural environment & able to coordinate/lead small team
- Understanding of Asian and European cultures and cultural diversity & norms.

COURSES TAUGHT:

MPhil/ PhD

- Advances in modern microbiology
- Modern parasitology
- Animal developmental biology
- Zoonosis
- Antimicrobial resistance
- Structural biology
- Bioinformatics
- Biorisk Management

UNDERGRADUATE

- General Microbiology
- Fundamentals of Immunology
- Bacteriology and Mycology
- Systemic Virology
- Milk Hygiene and public health

University Quality Enhancement Cell rating as Teacher on student's teacher evaluation reports

A^+ (Best teaching materials, teaching methodology, attitude, involvement of students, etc)

PRODUCTS DEVELOPED:

1. Milk adulterant kit for detection of 12 most commonly used adulterants in milk.
2. DNA Extraction Kit.
3. Development of Bacterial Vaccine (Anthrax spore Vaccine, Black quarter disease vaccine, Enterotoxaemia Vaccine and Hemorrhagic Septicemia Vaccine)
4. Viral vaccine (Newcastle disease vaccine, Avian Influenza vaccine)
5. Autogenous Vaccine (Hydro pericardium syndrome, Contagious Caprine Pleuropneumonia)

RESEARCH PROJECTS:

Principal Investigator

1. Molecular characterization of *Clostridium perfringens* and development of Toxoid vaccine funded by Pakistan Science Foundation. (Rs.2.3 million).
2. Development of multi strain probiotic for the production of safe, antibiotic free and high quality poultry meat funded by Pakistan Science Foundation (Rs. 7.078 million).
3. Development of novel Bacteriophage cocktail therapahy against Antimicrobial resistant Bacteria funded by Pakistan Science Foundation (Rs. 4.1108 million).

Co-Principal Investigator

4. Molecular Characterization of Brucella species prevalent in Cattle, Buffalos, Sheep, Goat and Human being funded by Govt., of KPK province of Pakistan. (Rs. 10.00 million)
5. Development of Phyto-Protease and its Comparative assessment with Different commercial proteases used in poultry feed production funded by Pakistan Science Foundation (Rs. 6.21 million).
6. Development of local toxin binders for the control of mycotoxicosis in poultry (1.7 million)
7. Development of passive immunotherapy against enterotoxaemia (2.245 million)

M. PHIL THESIS SUPERVISED:

1. Study on Isolation, identification and Molecular Characterization of *Clostridium perfringens* in goats in district Peshawar
2. Antimicrobial resistance in *E. coli* isolated from milk samples
3. Antimicrobial resistance in *Staph aureus* isolated from milk samples
4. Quality assessment of cottage cheese available in Peshawar, Pakistan
5. Seroprevalance of *Brucella abortus* and *B. meletensis* in sheep and goats in district Sawabi
6. Molecular Characterization of *Clostridium perfringens* in sheep and goats in district Peshawar
7. Antimicrobial properties of *Streptococcus thermophilus* and *Lacobacillus bulgaricus* isolated from milk samples
8. Molecular Characterization of *Clostridium perfringens* in sheep and goats in district Bannu

Ph. D THESIS SUPERVISED:

Clinico-epidemiology, Molecular identification and Control of *Clostridium perfringens* infection in small ruminants of selected districts of Khyber Pakhtunkhwa, Pakistan.

LIST OF RESEARCH PUBLICATIONS:

1. Zaibullah Khan, Mehran Khan, **Sher Bahadar Khan**, Iram Liaqat, · Saeed M. N. Alasmari5 , Sarah A. Altwaim, Zhihua Sun, Abid Al. Haplotype network analyses, genetic diversity, and population structure of *Hyalomma anatolicum* based on cytochrome c oxidase subunit I (*COI*) and the large subunit ribosomal RNA (16S rRNA). Parasitology Research. DOI:https://doi.org/10.1007/s00436-025-08549-2.
2. Sudais Rahman, Da-Wei Huang, Mohibullah Shah, Mashal, M. Almutairi, Iram Liaqat, Tetsuya Tanaka, Chien-Chin Chen, **Sher Bahadar**, Abid Ali. Vaccinomics-Based Identification of Immunodominant Epitopes in the Tick-Borne Encephalitis Virus Polyprotein for Multi-Epitope Vaccine Development. Computational and Structural Biotechnology Reports. https://doi.org/10.1016/j.csbr.2025.100047.
3. Arsalan Said , Irfan Khattak, Rao Zahid Abbas, Tahir Usman, **Sher Bahadar Khan,** Rahat Ullah Khan , Christine M. Budke, Guilherme G. Veroca. ELISA based seroprevalence and risk factors for three zoonotic parasites (*Toxoplasma gondii,Echinococcus granulosus* and *Trichinella spiralis*) in humans in Khyber Pakhtunkhwa, Pakistan. Parasitology International 106 (2025) 103017.
4. Muhammad Shahkar Uzair, Asad Sultan, Sar Zamin Khan and Sher Bahadur Khan. Impact of Different Levels of Ginger Derived Phyto-Protease (Zingibain) on Broiler Production Performance and Nutrient Digestibility Fed Diet With Reduced Level of Protein and Amino Acids. Pakistan Journal of Zoology. **DOI:** https://dx.doi.org/10.17582/journal.pjz/20231205103358

5. Noor Bahadar, **Sher Bahadar**, Abdul Sajid , Muqeet Wahid, Ghadir Ali , Abdullah Alghamdi , Hakeem Zada , Tamreez Khan, Shafqat Ullah and Qingjia Sun. Epigallocatechin gallate and curcumin inhibit Bcl-2: a pharmacophore and docking based approach against cancer. Breast Cancer Research.
6. R. Javed, T. Usman, S. Niaz, N. Ali, H. Baneh , K. Ullah , I. Khattak , M. Kamal, **S. Bahadar** , N.U. Khan , S. Khan, Y. Wang, Y. Yu and Mostafa K. Nassar. Effects of Genetic and Environmental Factors on Mastitis and Performance Traits in Various Breeds of Dairy Cattle Maintained at Khyber Pakhtunkhwa, Pakistan. Pakistan J. Zool., pp 1-7, 2023.
7. Abid Ali, Muhammad Kashif Obaid, Mashal Almutairi, Abdulaziz Alouffi, Muhammad Numan, Shafi Ullah, Gauhar Rehman, Zia-ulIslam, **Sher B. Khan** and Tetsuya Tanaka. Molecular Detection of Coxiella spp. in Ticks (Ixodidae and Argasidae) Infesting Domestic and Wild Animals: With Notes on the Epidemiology of Tick-borne Coxiella burnetii in Asia. Front. Microbiol. Sec. Infectious Agents and Disease Volume 14 – 2023.
8. Ziaul Islam, Asad Sultan, Sar Zamin Khan and **Sher Bahader Khan**. Effect of Organic Acids Blend, Micro-Encapsulated Phyto-Essential Oils Individually or in Combination on Growth Performance, Gut Health and Nutrients Utilization of Broilers. Pakistan J. Zool., Vol. 54, Iss. 5, pp. 2391-2399.

9. Memon, A.M., Chen, F., **Khan, SB.,** Guo, X., Khan, R., Khan, F.A., Yinxing Zhu, Y., & He, G. Development and evaluation of polyclonal antibodies based antigen capture ELISA for detection of porcine rotavirus, Animal Biotechnology, DOI: 10.1080/10495398.2022.2052304
10. Ullah, S., Ullah, A., Rahman, W., Ullah , F., **Khan , S. B.,** Gulzar Ahmad, G., Ijaz , M., Gao. T. An innovative user-friendly platform for Covid-19 pandemic databases and resources. Comput Methods Program updates. 2021;1:100031. doi: 10.1016/j.cmpbup.2021.100031. Epub 2021 Sep 26.
11. Ahmad, I., Khattak, S., Ali, R., Nawaz, N., Ullah, K., **Khan, S. B.**, Ali, M., Patching, S. G., Mustafa, M.Z. Prevalence and molecular characterization of multidrug-resistant *Escherichia coli* O157: H7 from dairy milk in the Peshawar region of Pakistan. Journal of Food Safety. https://doi.org/10.1111/jfs.12941
12. **Khan**, **SB**., Khan, MA., Ahmad, I., Khan, FA., Khan, H., Khan, SA. Prevalence of antibioitc resistant genes in *Staphylococcus aureus* isolated from bovine mastitis. Pakistan J. Zool., pp 1-6, 2021.
13. Guo**,** H.,Khan, R., Raza, SHA., SM., Khan, H., **Khan**, **SB**., Abd El-Aziz, AS., Zan, L. RNA-Seq Reveals Function of Bta-miR-149-5p in the Regulation of Bovine Adipocyte Differentiation**.** *Animals* **2021**, *11*(5), 1207.
14. Nawaz S.,**Khan**, **SB**.,Sadique, U.,Israr, M., Khan, MA.,Khan, HU.,Irshad, M.,Ali, I.,and Ullah, HA. Molecular characteriztion and pathogenesis local isolates of *Clostridium perfringens* type D from sheep in district Peshawar. Pakistan J. Zool., pp 1-4, 2021.

15. Shehzadi, S., **S.B. Khan**, U. Sadique and S. Nawaz. 2021. Isolation and molecular identification of clostridium perfringens type D in goats in district Peshawar. *Sarhad Journal of Agriculture,* 37(1): 110-114.
16. Khan, MA., Khan, SB., Khan, IU., Sultan, A., Khan, R., Shahid, M., Aqib, AI., Khan, S., Khan, AZ., Hassan, M. The prevalence of Clostridium perfringens in retail meat of Mardan, Pakistan. Turk J Vet Anim Sci (2020) 44: TÜBİTAK doi:10.3906/vet-1907-21.
17. Zahoor, A., Yang, Y., Yang, C., **Khan**, **SB**., Reix, C., Anwar, F., Guo, MY., Deng, G. MerTK negatively regulates Staphylococcus aureus induced inflammatory response via Toll-like receptor signaling in the mammary gland. Molecular immunology (2020), 122, 1-12.
18. Rehman, ZU.,Liu, Q.,Bhattarai, D.,Liang, A.,Ullah F.,Dad, R., **Khan**, **SB**., Talpur, HS.,Khan, SA., and Yang, L. Expression Profile of Sox5 and Sox6 in Sertoli and Spermatogonial Cells in Growing Mice Testis. Kafkas Universitesi Veteriner Fakultesi Dergisi, 26(1):103-109,2020.
19. **Khan**, **SB**., Khan, MA., Ahmad, I., Nawaz, N., Muneeb, M. Distribution of antibiotic resistance and antibiotic resistant genes in Camphylobacter jejuni isolated from poultry in North West of Pakistan. Pakistan J. Zool., pp 1-7, 2020.
20. Ahmad, I., **Khan**, **SB**., Nawaz, N., Mustafa, MZ., Asadullah., Khattak, M., Khan, M., Ali, A., Yousafzai, YM., Rehman, S., and Thompson, C. Purification and secondary structure analysis of major facilitator superfamily transport protein gab15256 from *arthrobacter globiformi.* The Journal of the Chemical Society of Pakistan, 2019, Vol. 16 (3),783-789.
21. Nawaz, N., Ahmad, I., Darwesh, NM., WahabA., Rahman, S., Sajid, A., Khan, FA., **Khan**, **SB**., Patching, SG., Uddin, K. Synthesis, Characterization and Antioxidant Activity of Nickel(II) Schiff Base Complexes Derived from 4-Dimethylamino)benzaldehyde. The Journal of the Chemical Society of Pakistan, (2020), V. 42(2); p. 238-242.
22. Khan, MA., **Khan**, **SB**., Ahmad, S., Ahmad, I., Prince, K., Rashid, G., Khan, IU,, Ullah, A., Ullah, Naimat., Shoaib, M., Shah, ASA. Variation In Physiological Biomarkers With Different Clostridium Perfringens Isolate Infections In Balkhi Sheep. Pakistan J. Zool., Vol. 52, Iss. 6, pp 2121-2127.
23. **Khan, S.B**., Khan, MA., Ahmad, I., Rahman, TU., Shahid Ullah, S., Dad, R., Sultan, A., Memon, AM. Phenotypic, genotypic antimicrobial resistance and pathogencity of *Salmonella enterica* serovars Typimurium and Enteriditis in poultry and poultry products. Microbial Pathogenesis, 129 , 118-124.
24. Khan, MA.,**Khan, S.B**.,Ullah, N., Ullah, S., Ullah S., Khan, AZ., Khan, IU., Khan, NH., Shan, MB., Inam, M., Ullh, M. Distribution and antimicrobial resistance patterns of *Clostridium Perfringens* isolated from vaccinated and unvaccinated goats. Small Ruminant Research, (2019) 173:70-73.
25. Muneeb M., Ayub, M., **Khan, SB.**, Khan, MA., Shan, A., Jabeen, F. 2019. Quality assessment of cottage cheese available in Peshawar, Pakistan. *Pakistan J. Zool., vol. 52(2), pp 687-691, 2020.*
26. **Khan, S.B**., Zou, G., Khan, MA., Haq, IU., Sultan, A., Zhou, R. Distribution of phenotypic and genotypic antimicrobial resistance in *E. coli* isolates along the

Production and Supply Chain of Pork around Hubei Province of China. *Pakistan J. Zool., vol. 51(4), pp 1569-1574, 2019.*

27. Khan, MA., **Khan, SB**.,Ahmad, S.,Ahmad, I, Haq, I.,Prince, K.,Ullah, A.,Shoaib, M.,Zaman, S., Aqib, AI.,Rashid, G.,Ali, M.,Khan, IU.,Khan, I.,Ullah, N., and Shahid, M. Effect of Vitamin E. Supplementation on humoral immunity following administration of enterotoxameia vaccine in goats. Pakistan J. Zool., Vol. 51, Iss. 6, pp 2377-2379
28. Khan, MA., Durrani, AZ., **Khan**, **SB**., Bokhari, SG., Haq, I., Khan, IU., Ullah, N., Hussain, K., and Khan, AU. Development and Evaluation of Clostridium perfringens Type D Toxoid Vaccines, Pakistan J. Zool., 2018 Vol. 50, Iss. 5, pp 1857-1862.
29. Ahmad, I., Nawaz, N., Rahman, SU., Sajid, A., Khan, FA., **Khan**, **SB**., Mustafa, MZ.,and Patching, SG. Multifaceted roles of efflux proteins in prokaryotes. Asian Journal of Biological and Life Sciences, 7 (1018), 1-7.
30. Khan, MA., Durrani, AZ., **Khan**, **SB**., Khan, MA., Sheikh, AM., Ullah, N., Prince, K., Ullah, A. Association between bacterial strain type and host biomarkers in infected goats. Microbial Pathogenesis 2017, 112: 254e258.
31. **Khan, S.B**., Zou, G., Cheng, Y.-T., Xiao, R., Li, L., Wu, B., Zhou, R. Prevalence, quantitification and isolation of pathogenic shiga toxin E. coli along the production and supply chain of pork around Hubei province of China. Microbial Pathogenesis, 115 (2018), 93-99.
32. Ahmad, I., Nawaz, N., Darwesh, NM., Rahman, SU., Mustafa, MZ., Khan, SB., Patching, SG. Overcoming challenges for amplified expression of recombinant proteins using *Escherichia coli. Protein Purification and Expression 144 (2018), 12-18.*
33. Shah, T., Hayat, A., Shah, Z., Ahmad, S., **Khan, SB**. Molecular detection of multiple drug resistant Tuberculosis (MDR-TB) in MDR-TB patients attended in North western Pakistan. Pak Armed Forces Med J 2017; 67 (6): 982-87.
34. Jiu, Y., Zhu, S., **Khan**, SB., Sun, M., Zou, G., Meng, X., Wu, B., Zhou, R., and Li, S. Phenotypic and Genotypic Resistance of *Salmonella*IsolatesfromHealthy and DiseasedPigs inChina During2008–2015, MicrobialDrugResistance, DOI:10.1089/mdr.2016.0132.
35. **Khan, S.B**., Zou, G., Cheng, Y.-T., Xiao, R., Li, L., Wu, B., Zhou, R. Phylogenetic grouping and distribution of virulence genes in *E. coli* isolates along the production and supply chain of Pork. Journal of Microbiology, Immunology and Infection, (2017) 50, 382-385, DOI:10.1016/j-jmii.2016.03.006.
36. Khan, SA., Liu, X., Li, H., Fan, W., Shah, BR., Li, J., Zhang, L., Chen, S., **Khan, SB**. Organ specific antioxidant defenses and FT-IR spectroscopy of muscles in crucian carp (carassius auratus gibelio) exposed to environmental Pb2+. Turkish Journal of Biology, DOI 10.390/biy-1410-3.
37. Tariq Shah , J Tao, Farooq Shah, Arshad Farooq, Muhammad Ishaq, **Sher Bahadar Khan.** A comparative study of the agricultural practices of members and non-member farming community of model farm services center in Khyber Pakhtunkhwa Pakistan. Journal of Animal and Plant Sciences.
38. S Fahad, Shussain, S. Saud, S.Hassan, H.Muhammad, D. Shan, C. Chen, C.Wu, D.Xiong, **S.Bkhan** , A.Jan , K.Cui & J. Huang. Consequences of narrow

crop row spacing and delayed Echinochloa colona and Trianthema portulacastrum emergence for weed growth and crop yield loss in maize. Weed Research.

39. Khan S. A. , Liu X. , Shah B. R. , Fan W. , Li H. , Khan S. B. , Ahmad Z. Metals uptake by wastewater irrigated vegetables and their daily dietary intake in Peshawar, Pakistan. Ecological chemistry engineering

40. Ahmad, I., Qureshi, TA., Sadique, U., Khan, SA, Ahmed, S., Rehman, Z U., **Bahadar, S.,** and Mushtaq, M. Hematological effects of Dichlofenac sodium in goats. Journal of Animal and Plant Sciences 2013, 23 (1), 103-107.
41. Khan, MA., Shah, AH., Maqbol, A., **Khan**, **SB.,** Sadique, U., and Idress, M. Study of Tecomella undulata G.don methonolic extracts against sarcopes scabieil in vivo and in vitro. Journal of Animal and Plant Sciences 2013, 22 (1), 47-53.
42. Rehman, ZU., Samo, MU., Qureshi, TA., Khan, S., Qureshi, MS., Khan, FA., **Bahadadr, S**. Studies on the Freezability of Kundi buffalo bull semen. Journal of Animal and Plant Sciences 2013, 22 (2), 18-23.
43. **Bahadar**, **S.,** Anjum, AA., Ahmad, MD., and Hanif, A. Isolation and Identification of Peste des Petits ruminants' virus by cell culture and Immunocapture Enzyme Linked Immunosorbent Assay. Journal of Animal and Plant Sciences 2009, 19 (3), 119-121.

NATIONAL CONFERENCE PROCEEDINGS:

1. Sher Bahadar Khan, Saqib Nawaz, Muhammad Israr, Umar Sadique. Molecular Characterization of Clostridium perfringens and Development of Toxoid Vaccine. In Proceddings of "BRI" Sino Pakistan Agriculture Forum 2025, November 18-20, 2025.
2. Saqib Nawaz, **Sher Bahadar Khan**, Umar sadique. Characterization of Local isolates of *Clostridium perfringens* type D from sheep in district Peshawar. In proceeding of National conference on beneficial microbes and sustainable development at the University of Agriculture, Peshawar, Pakistan from February 19-20, 2020.
3. Salaman Khan, **Sher Bahadar Khan**, Shah Zeb, Muhammad Nadeem. Prevailing situation of Brucellosis in cattle and human population in District Swat. In proceeding of National conference on beneficial microbes and sustainable development at the University of Agriculture, Peshawar, Pakistan from February 19-20, 2020.
4. Saima Khan, **Sher Bahadar Khan**, Qasim shah, Saqib Nawaz. Prevalence of *Clostridium perfringens* in calves in District Peshawar. In proceeding of National conference on beneficial microbes and sustainable development at the University of Agriculture, Peshawar, Pakistan from February 19-20, 2020.
5. **Sher Bahadar Khan**, 2017. Milk Adulterations, issues and solutions through Government and academia linkages. One Health Conference, The way forward. Khyber Medical University, Peshawar, Pakistan.

6. **Sher Bahadar Khan**, Mumtaz Ali Khan, Irshad ahmad, Shakoor Ahmad. Antimicrobial resistance in Diarrheagenic *E. coli* in Children, 2018. In Procedding of 1st international conference on basic medical sciences, Khyber Medical University, Peshawar, Pakistan.
7. **Sher Bahadar Khan,** Aftab Anjum, Mansoor ud Din Ahmad. Characterization of PPR virus from small ruminants. In proceeding of 1st International symposium on Biotechnology, current trends held at Malakand University from 2-4July, 2008.
8. **Sher Bahadar Khan**, Mumtaz Ali Khan, Irshad ahmad, Shakoor Ahmad. Current status and pattern of antimicrobial resistance in *Staphylococcus aureus* isolates from bovine mastitis. International buffalo congress 2019, University of Veterinary and Animal Sciences, Lahore.
9. Saqib Nawaz, **Sher Bahadar Khan**, Mumtaz Ali, Asad Sultan and Umar Sadique. Characterization of Clostridium perfringens of type D, A threat to food security in Changing climate. International Conference on Food security in Changing climate at the university of agriculture, Peshawar held on October 23-24, 2019.

INTERNATIONAL CONFERENCE PROCEEDINGS AND PRESENTATIONS:

1. **Sher Bahadar Khan**, Saqib Nawaz, Muhammad Israr, Umar Sadique. Molecular Characterization of Clostridium perfringens and Development of Toxoid Vaccine. In Proceddings of "BRI" Sino Pakistan Agriculture Forum 2025, November 18-20, 2025.
2. **Sher Bahadar Khan**, Zou Geng, Xiao Ren, Rui Zhou. 2017. Quantification, isolation and Pathogenomics f pathogenic Shiga toxin *Escherichia coli* O157:h7 along the production and supply chain of pork around Hubei of china. In proceeding of 4th international conference and industrial exhibition on Dairy Science Park. Selcuk University, Konya, Turkey.
3. Shafat Ullah, shakoor Ahmad, Umar Sadique, **Sher Bahadar Khan**, Zahir Shah, Murad Ali Khan, 2017. Incidence of drug residues in meat and milk at district Karak. In proceeding of 4th international conference and industrial exhibition on Dairy Science Park. Selcuk University, Konya, Turkey.
4. Ijaz Ahmad, Haihon Hao, Jun Li, Pascal Sander, **Sher Bahadar Khan**, Farhan Anwar Khan, Zahir Shah, Zia ur Rehman.A simple and sensitive hplc method for determination of cefquinome in plasma: application to pharmacokinetic study in cattle, 2017. In proceeding of 4th international conference and industrial exhibition on Dairy Science Park. Selcuk University, Konya, Turkey.
5. Muhammad Sohail , Asad Sultan, Sir Zamin Khan, , Naila Imtiaz**, Sher Bhadar Khan,** 2017**.** Total tract nutrient retention and apparent metabolizable energy of different cereals and their varieties by quails**.** In proceeding of 4th international conference and industrial exhibition on Dairy Science Park. Selcuk University, Konya, Turkey.
6. Faizah, H.M.S., Maguire, A., Harper, K., **Sultan**, A., Li, X., Klieve, A.V and Bryden, W. L. (2011) Caecal microflora composition of broilers feed sorghum diets containing feed enzymes. *Proc. Aust. Poult. Sc. Symp.* 22:18
7. Mumtaz ali khan, Aneela zameer durrani, **Sher Bahadar Khan**, shehla gul bokhari, ikramul haq, imdad ullah khan, naimat ullah, naimat ullah khan, kashif hussain and azmat ullah khan, 2017. Toxinotyping of *Clostridium Perfringens* infected lambs and

kids in different topographic areas of Khyber Pakhtunkhwa, Pakistan. In proceeding of 4th international conference and industrial exhibition on Dairy Science Park. Selcuk University, Konya, Turkey.

8. Farhan Anwar Khan, Xi chen, Ijaz Ahmad, **Sher Bahadar Khan**, Zahir Shah, Zia ur Rehman, 2017. Vaccine; A rational control strategy for Mycoplasma Bovis infection in Cattle. In proceeding of 4th international conference and industrial exhibition on Dairy Science Park. Selcuk University, Konya, Turkey.
9. **Sher Bahadar Khan**, Zou Geng, Xiao Ren, Rui Zhou. 2017. Antibiotic resistance and antibiotic resistant genes in *E. coli* belong to different phylogenetic groups**.** In proceeding of 4th international conference and industrial exhibition on Dairy Science Park. Selcuk University, Konya, Turkey.

CONFERENCES/WORKSHOPS ATTENDED:

1. Training course on the "Diagnosis of Veterinary Diseases" at National Veterinary Laboratory, Islamabad from 22 June to 30thJune, 2005.
2. Computer training course in Barani Institute of computer & technology, Rawalpindi from September 21-27, 2006.
3. Field epidemiology training course in National Institute of Health, Islamabad sponsored by centre for disease Control (CDC), Atlanta, USA from February 23 to 26, 2007.
4. Participation in One Day National Seminar on Bird Flu, held in Veterinary Research Institute, Peshawar on 22 May 2008.
5. 3rd Asian Pacific Biosafety & Biosecurity Training Course, Bangkok, Thailand from May 23th -27th, 2008.
6. Controlling Laboratory Biorisks held from 16th to 22nd February, 2009 in NM USA.
7. Two days National conference on Molecular Epidemiology and Diagnosis of Brucellosis at VRI, Peshawar from 23-24 March, 2009.
8. 4th annual Asian Biosafety & Biosecurity conference, Manila, Philippine from April 27th - 30th, 2009.
9. Preparation & Evaluation of trivalent Foot and Mouth Disease Vaccine held at UVAS, Lahore from 8th to 20th June, 2009.
10. Training on General, Large and Small Animal Research and Veterinary Clinics held at Fortcolins Colorado, USA from July 8-13,2009.
11. American Veterinary & Animal Association meeting held in Sandiago, California, USA from November 08-15, 2009.
12. Five days training on Veterinary Epidemiology from January 13-17, 2014 arranged by Huazhong Agriculture University, Wuhan, China in collaboration with Murdoch University, Australia, FAO and Ministry of agriculture, China.
13. A workshop Biorisk Management Curriculum Development held at Bangkok, Thailand from November 13-17, 2016.
14. One Health Conference, The way forward. Khyber Medical University, Peshawar, Pakistan, 25-26th April, 2017.
15. Workshop on Milk adulteration for detection of 12 most commonly used adulterants in milk, Khyber Medical University, Peshawar, Pakistan, 24th April, 2017.

16. A workshop Biorisk Management Curriculum Development held at Colombo, Sari Lanka from September 4-7, 2017.
17. 4th international conference and industrial exhibition on Dairy Science Park. Selcuk University, Konya, Turkey, from 1-5th November, 2017.
18. A training on LEGS (Livestock Emergency Guidelines and Standards) was attended from August 09-11, 2017 arranged by FAO and USDA at Peshawar, KPK, Pakistan.
19. Molecular Diagnostic Advanced Technologies at Jordan University of Science and Technology, Irbid, Jordan from September 15-26, 2019.
20. Write workshop on Development of Biorisk Management Manual at Colombo, Sari Lanka from February 17-19, 2020 under Health Security Partners, USA and Pakistan Biological Safety Association.
21. IBFA professional certification in biorisk management December 2nd, 2022.
22. Enhancing molecular biology, epidemiology & sequencing, Oct 2021, Nov 2022 organized by global chemical and biological security program of Sandia Labs, USA and Princes Haya biotechnology center, Jordan.

CONFERENCES/WORKSHOPS ORGANIZED:

1. International workshop on Dairy Science Park at the University of Agriculture, Peshawar from 21-23 November, 2011.
2. Molecular diagnosis and characterization of *Clostridium perfringens* at the University of Agriculture, Peshawar from 2-3 May, 2019.
3. Virtual training workshop on "decontamination and management strategies for the control of biological wastes at The University of agriculture, Peshawar" from March 3 to April 28, 2021 sponsored by Health Security Partners.
4. Virtual training on BRM for the faculty and students of Agriculture, Peshawar sponsored by Association of Biorisk Management, Pakistan from April 13-14, 2021.
5. One day hands on training workshop on Histopathological and Histochemical techniques, 22 Nov, 2022.
6. One day hands on training workshop on bovine reproductive Ultrasonography held on January 12th, 2023.
7. One day hands on training workshop Calf feeding management held February 28, 2023.
8. One day hands on training workshop on CRISPR Cas9 Genome modification technology held on March 06, 2023.
9. A workshop on Role of Biosafety and Biosecurity in Life Sciences Research on March 19, 2023.
10. 1st international conference on One Health" Recent trends in improving resistance against diseases using Molecular genetics and OMICS tools" at AWKUM from December 6-7, 2023.
11. 2nd national workshop on Ultasonography in farm animals at College of Veterinary Sciences, Abdul Wali Khan University, Mardan on January 29, 2024.
12. One day workshop on modern lightning system and biosafety in livestock and poultry farms on February 20, 2024.

13. 2nd international conference on One Health" One target: long term survival of human being through national Eco-security system" at AWKUM from November 7-8, 2024.
14. 3rd international conference on One Health" One target: long term survival of human being through national Eco-security system" at AWKUM from November 6-7, 2025.
15. A seminar on Animal care and welfare was organized at Abdul Wali Khan University, Mardan on May 9, 2026.

WORKED AS RESOURCE PERSON FOR COMMUNITY DEVELOPMENT:

- Association for Biorisk Management Pakistan (training of Laboratory Staff on Biosafety and Biosecurity)
- Strengthening of Livestock services, European Union Project
- Health Security Partners, USA (training of Laboratory Staff on Bio-waste Management)
- Dairy Science Park
- Eco-security System International Network, China
- Coordinator Zubair Scholarship Foundation
- Food and Agriculture Organization

ADMINISTRATIVE/ADDITIONAL RESPONSIBILITIES:

- Controller of Examinations, Abdul Wali Khan University Mardan
- Principal College of Veterinary Sciences, Abdul Wali Khan University Mardan
- Head Pathology, Bacteriology and Brucellosis section
- Technical member of the Khyber Pakhtunkhwa Public Service Commission
- Senate member of the University of Agriculture, Peshawar
- Executive council of the university teachers Association
- Faculty research coordinator for the College of Veterinary Sciences
- Member organizing committee of International workshop (assisted in arranging an international workshop on Dairy with Dean of the Faculty)
- Member board of study College of Veterinary Sciences
- Reviewer for international conferences (Reviewed abstracts for different international conferences)

GENERAL TRAININGS:

1. Computer short course MS Office, Internet, Linex etc
2. Leadership Management and Skill Training (LMST) by Sarhad Rural Support Corporation (SRSC).

REFERENCES:

1. Professor. Dr. Zahoor Ul Haq, Vice Chancellor, Abdul Wali Khan University, Mardan, Pakistan, zahoor.haq@awkum.edu.pk; +92 937 843353, +92 334 9063103.
2. Prof. Dr. Muhammad Subhan Qureshi, Faculty of Animal Husbandry and Veterinary Sciences, The University of Agriculture, Peshawar, Pakistan. drmsqureshi@gmail.com drmsqureshi@aup.edu.pk, + 92 91 9221027, +923005877933.
3. Prof. Dr. Umar Sadique, Chairman, Department of Pathology, The University of Agriculture, Peshawar, Pakistan, druskhattak@yahoo.com, +92 919221027, +923009030316