**Farhan Anwar khan**

Assistant Professor

Department of Animal Health

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**Academic Profile:**

Doctor of Philosophy (PhD)

Preventive Veterinary Medicine,

Animal Infectious Diseases (Veterinary Pathology)

2012-2016

Huazhong Agricultural University (HZAU), Wuhan, Hubei, China

Master of Philosophy (M. Phil)

Pathology

2006- 2008

University of Veterinary and Animal Sciences (UVAS) Lahore, Punjab, Pakistan

Doctor of Veterinary Medicine (DVM)

Veterinary Medicine

2000-2005

Sindh Agriculture University, Tandojam, Sindh,Pakistan.

**Subjects studied:**

Advanced Parasitic Zoonoses, Biotechnology for Parasitic Control, Principal of Biochemistry, Molecular Pathology, Fish Pathology, Immunological Techniques, Advanced General Pathology, Advanced Clinical Pathology, Pathology of Infectious diseases of Poultry, Experimental Statistics, Immunopathology, Advanced Diagnostic Pathology, Hematology, Advanced Microbiology, Immunology, General Biochemistry, Animal restrain and Handling, Animal Nutrition, Animal Breeding and Genetics, Poultry Production, Dairy technology, Veterinary Anatomy, Histology, Physiology, Pharmacology, Pathology, Parasitology, Microbiology, Immunology, Medicine, Surgery, Obstetrics and Gynecology, Shoeing and Dentition, Chinese Language (Mandarin) , Introduction to Chinese Culture, Preventive Veterinary Medicine (Seminar), Advances in Modern Microbiology, Animal Developmental Biology, Animal Disease Pathology, Modern Parasitology, Structural Biology, Bioinformatics, Critical Thinking and Scientific Writing Skills.

**Honors and Distinctions:**

1. “Gold Medal” in favor of securing 1st position throughout DVM degree (2005).
2. “Kissan Time Award” meant for the best student of the year (2006).
3. “17th Star Award”, South Asian Publication (SAP) in favor of the best student of the year (2006).
4. Nominated for “Presidential Award" (2006).
5. Scholarship holder and merit winner throughout DVM degree.
6. “Chinese Government Scholarship” awarded in support of Ph.D degree.
7. “Outstanding Student Award 2015-2016”, State Key Laboratory of Agricultural Microbiology, Huazhong Agricultural University (HZAU), Wuhan, Hubei, China
8. “Best Sportsman Award 2015-2016”, Huazhong Agricultural University (HZAU), Wuhan, Hubei, China

**Significant Achievements:**

1. Facilitated linkage, coordination and collaboration of the University of Agriculture, Peshawar, and Dairy Science Park (DSP), Pakistan with the internationally recognized and highly reputed International Biological and Chemical Threat Reduction (IBCTR) team of Sandia National Laboratories, New Mexico, USA- 2015-2016.
2. Visited 03 countries (USA, Jordan, China) of the world meant for study, training, participation in seminars / workshops / conferences.
3. Inclusion in South Asian Publication “Who’s who in Pakistan” biographical record (2006) as a best student of the year 2006.
4. Supervise ADP project titled “Creation of Virology Section and Animal Houses at VRI, Peshawar” worth 65 million as a Project Incharge at Veterinary Research Institute, Khyber Pakhtunkhwa, Peshawar.
5. Member of the Pakistan Veterinary Medical Council.
6. Member of International Society for Infectious Diseases (ISID), USA.

**Professional Experience:**

* Assistant Professor

26-06-2014 to date

Department of Animal Health,

Faculty of Animal Husbandry and Veterinary Sciences,

The University of Agriculture, Peshawar, Khyber Pakhtunkhwa, Pakistan

* Lecturer in Pathology

12-05-2011 – 25-06-2014

Department of Animal Health,

Faculty of Animal Husbandry and Veterinary Sciences,

The University of Agriculture, Peshawar, Khyber Pakhtunkhwa, Pakistan

* Research Officer

28-05-2007 – 11-05-2011

Standardization and Quality Control Section

Biological Production Center

Veterinary Research Institute (VRI), Peshawar, Khyber Pakhtunkhwa, Peshawar

* Biosafety and Biosecurity Officer (Additional Charge)

26-11-2007 – 11-05-2011

Biological Production Center

Veterinary Research Institute (VRI), Peshawar, Khyber Pakhtunkhwa, Peshawar

* Teaching Assistant in Histology

01-06-2006 to 18-05-2007

Department of Anatomy and Histology,

Faculty of Biosciences,

University of Veterinary and Animal Sciences (UVAS), Lahore, Punjab, Pakistan.

**Major Supervisor:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Session** | **Name of student** | **Degree** | **Status** |
| 01 | 2016-2018 | M. Izhar ul Haq | M.Phil | Ongoing |
| 02 | 2016-2018 | Asawera Ihsan | M.Phil | Ongoing |
| 03 | 2016-2018 | Salman Khan | M.Phil | Ongoing |

**Publications:**

1. Harish, M, Chenfei He, Hui Zhang, Gang Zhao, **Khan, F.A,** Muhammad, F, Muhammad, A. R, Zubair, D, Atta, M.M, Anne, R., Yingyu Chen., Aizhen, G. (2017). Molecular Epidemiological Analysis of Chinese Mycoplasma bovis Isolates using Multilocus Sequence Typing and Pulsed-Field Gel Electrophoresis, Molecular Microbiology (Under Review). (IF- 3.761)
2. Gang Zhao, Hui Zhang, Xi Chen, Xifang Zhu, Yusi Guo, Chenfei He, **Khan, F.A**, Yingyu Chen, Changmin Hu, Huanchun Chen, Aizhen Guo, (2016). Mycoplasma bovis NADH oxidase functions as both a NADH oxidizing and O2 reducing enzyme and an adhesin. Scientific Reports (Accepted). (IF-5.228)
3. **Khan, F. A**., Muhammad, F., Jin, C., Kai, L., Xi, C., Gang, Z., Harish, M., Hui, Z., Xifang, Z., Muhammad, A. R., Chenfei, H., Changmin, H., Yingyu, C., Baranowski, E., Huanchun, C., Aizhen, G. (2016). Immunoproteomic identification of MbovP579, a promising diagnostic biomarker for serological detection of Mycoplasma bovis infection. Oncotarget, 7(26), 39376-39395. (IF- 6.36).
4. Han, X.X\*., **Khan, F.A\***., Xifang, Z., Rui, Z., Riaz, M., Changmin, H., Yingyu, C., Huanchun, C., Aizhen, G. (2015) Establishment of an antibody avidity test to differentiate vaccinated cattle from those naturally infected with Mycoplasma bovis. Vet J. 203(1):79-84. (\* Equally contributed authors), (IF-2.1).
5. Shah Fahad, Lixiao Nie, Faheem Ahmed Khan, Yutiao Chen, Saddam Hussain, Chao Wu, Dongliang Xiong, Wang Jing, Shah Saud, **Khan, F.A.,** Yong Li, Wei Wu, Fahad Khan, Shah Hassan, Abdul Manan, Amanullah Jan, Jianliang Huang., (2014). Disease resistance in rice and the role of molecular breeding in protecting rice crops against diseases. Biotechnol Lett. 36(7):1407-1420. (IF-1.7), Cited 4.
6. **Khan. F.A.,** Z.I. Chaudhry., M.I. Ali., S. Khan., N. Mumtaz., I. Ahmad. (2010). Detection of Mycobacterium avium subsp. paratuberculosis in tissue samples of cattle and buffaloes. Tropical Animal Health Production 42: 633-638. (IF- 1.115), Cited 14.
7. Chaudhry. Z. I., **Khan, F.A.,** S.Badar,M. Shahid. (2009). Detection of Mycobacterium avium subsp. paratuberculosis in Domestic Ruminants in Lahore, Pakistan. Pakistan J. Zool., vol. 41(2), 160-163. (IF-0.338), Cited 2.
8. Shah. Z., A. B. Kalhore., A. B. Kachiwal, I. Ahmad., H. Sattar., M. A. Khan., Z. U. Rehman., **Khan, F.A.,** T. Hussain., H. A. Ullah. (2013). comparative studies on sedative and analgesic effects of xylazine and detomidine in goats. J Anim Plant Sci, 23 (1 Suppl): 39-42. (IF- 0.585), Cited 1
9. Khan.S. B., U. Sadique**, Khan, F.A**., I. Ahmad, Z. U. Rehman, M. A. Khan, M. Idrees1 and Z. Shah. (2013). Factors affecting efficacy and immunological response of peste des petits ruminants (PPR) vaccines in small ruminants. J Anim Plant Sci, 23 (1 Suppl):43-46. (IF: 0.585)
10. Ahmad, I., T.A.Qureshi., **Khan, F.A.,** S.A.K. Mughal, U.Sadique., Z.Shah., S.Khan., Z. Hassan. (2011). Evaluation of biochemical effects of diclofenac sodium in goats. J Anim Plant Sci, 22 (2 Suppl): 1-4. (IF- 0.585), Cited 1.
11. Rehman.Z.U., M.U.Samo., T.A. Qureshi., S. Khan., M.S. Qureshi., **Khan, F.A**., S. Bahadar. (2012). Studies On The Freezability Of Kundhi Buffalo Bull Semen . J anim plant sci, 22 (2 Suppl): 18-23. (IF- 0.585), Cited 2.
12. Khan. Q., Z.U. Rehman., M.U.Samo., A.Raziq., I.Ahmad., **Khan, F.A**., M.Younus., F.H.Samo.,D.Muhammad. (2012). The effect of pgf 2 α analogue with or without gnrh on fertility rate of anestrus kundhi buffalo. J anim plant sci, 22 (2 Suppl): 51-54. (IF- 0.585)
13. Nawaz, A., Z.I.Chaudhry., M.Shahid., S.Gul., **Khan, F.A**., M.Hussain. (2012). Detection of Mycobacterium tuberculosis and Mycobacterium bovis in sputum and blood samples of human. J Anim Plant Sci, 22 (2 Suppl): 117-120. (IF- 0.585)
14. Mughal. S.A.K., Shahid, F., Gulzar, A., Tarique, H., Ijaz, A., **Khan, F.A**., Om, P. Studies on prevalence of h7 and h9 serotypes of avian influenza in commercial layer and broilers in Karachi, Pakistan. African journal of microbiology research 10/2011; 5(24):4237-4239. (IF- 0.539).
15. Mughal. S.A.K., G. Ahmed., T.Hussain., S.A.Fazlani., I. Ahmed., **Khan, F.A**., (2011).In vivo pathogenicity of hydropericardium hepatitis syndrome (Angara disease). African Journal of Biotechnology 10(62): 13664-13671. (IF- 0.573)
16. Mughal. S.A.K., T.Hussain., M.A. Qureshi., G. Ahmed., S.A.Fazlani., I. Ahmed., **Khan, F.A.,** (2011). Evaluation of serological response of chicks against angara disease agent through indirect haemaglutination test. African Journal of Microbiology Research 5(23): 3991-3993. (IF- 0.539)
17. Rehman. Z.U., D. Muhammad., F. Muhammad., Z.U. Rehman., **Khan, F.A**., K. Kaleem., M. Rizwan. (2010). Immunological and growth promoting activity of Milk Thistle (Silybum Marianum) in Broiler. Life Sciences International Journal 4: 1530-1537.
18. Khan. R.W., **Khan, F.A**., K. Farid., I. Khan., M. Tariq. (2009). Prevalence of Infectious Bursal Disease in broiler in district Peshawar. ARPN, JABS 4: 1. Cited 5.
19. Shahid. K., F.U. Hassan., S.R.Shah., **Khan, F.A**., S.K. Ullah., I.Uddin. (2013).Study of the Presence of Chicken Anemia Virus in Liver Homogenate Used as a Vaccine against Hydro Pericardium Syndrome in Broiler. ARPN, JST, 2, 8.
20. Khan, M.I., and **Khan, F.A.,** (2008). Highly Pathogenic Notifiable Avian Influenza (HPNAI) “A Review on control options”. Life Sciences International Journal 2, 2: 645-651
21. Khan. K., S.U. Rehman., M.A. Khan., **Khan, F.A**., S. Bahadar. (2008). Physical and chemical quality appraisal of commercial yoghurt brands sold at Lahore. ARPN JABS 3: 3.
22. **Khan, F. A**., Gang, Z., Yusi, G., Muhammad, F., Jin, C., Kai, L., Xi, C., Harish, M., Rahim D. B., Changmin, H., Yingyu, C., Huanchun, C., Aizhen, G. Proteomics identification and characterization of MbovP730 as a potential DIVA antigen of Mycoplasma bovis. Oncotarget (Under Review)
23. **Khan, F. A**., Muhammad, A. R., Muhammad, F., Xi, C., Gang, Z., Harish, M., Sher B.K., Zia U.R., Zahir, S., Umar S., Huanchun, C., Aizhen, G. Proteomics analysis of Mycoplasma bovis: a rational approach towards elucidation of its functionally important proteins. Pakistan Veterinary Journal (Under Review)
24. **Khan, F. A**., Xi, C., Gang, Z., Zubair, D., Atta M. M., Ijaz A., Umar., Sarzamin K., Huanchun, C., Aizhen, G. Vaccine; a rational control strategy for Mycoplasma bovis. Pakistan Veterinary Journal (Under Review)

**Abstracts in Scientific Journals**

1. Mumtaz. N., Z.I. Chaudhry., N. Mahmood., A.Z. Durrani., **Khan, F.A**. (2008). Comparison of multiplex PCR and conventional methods for the detection of tuberculosis (TB) in humans and bovines. Abstract of 1st International Symposium on Biotechnology; Current Trends organized by Department of Biotechnology, University of Malakand, Sponsored by HEC, Pakistan

**Patent*:*** A *Mycoplasma bovis* MbovP579 and its applications (CCTCC NO: 2015763)

**Research articles Reviewed:**

Reviewed research article of:

1. Sarhad Journal of Agriculture (SJA), The University of Agriculture, Peshawar
2. Oncotarget

**External Examiner for MS:**

1. Abasyn University Peshawar, Pakistan

**Memberships and Affiliations:**

1. Member of the International Organization of Mycoplasmology (IOM)
2. Lifelong Member of Pakistan Veterinary Medical Council (PVMC), Islamabad, Pakistan.
3. Member of International Society for Infectious Diseases (ISID), USA.(2009 - 2013)
4. National Academy of Young Scientist (NAYS), Pakistan

**Research Projects Supervised:**

1. Project Incharge of Khyber Pakhtunkhwa ADP project titled “Creation of Virology Section and Animal Houses at Veterinary Research Institute, Peshawar”.
2. Seroprevalence of Mycobacterium avium subsp. paratuberculosis causing Johne’s disease in domestic ruminants.

**Research Projects Undertaken:**

1. Detection of Paratuberculosis (Johne’s disease) in domestic ruminants and animal products.
2. Molecular Characterization of Brucella species in cattle, buffaloes, Sheep, goat at Khyber Pakhtunkhwa, Peshawar
3. Comprehensive analysis of Mycoplasma bovis immunoproteome

**Diploma/Short Courses/Training Undertaken:**

1. Veterinary Epidemiology

13-01-2014 – 17-01-2014

Jointly Organized by Murdoch University, Australia; FAO; Ministry of Agriculture, China; HZAU, Wuhan, China

1. 16th Master Trainers – Faculty Professional Development Program

20-09-2011 – 04-11-2011

Learning Innovation Division (LID), Higher Education Commission (HEC), Islamabad, Pakistan

1. Application of Polymerase Chain Reaction (PCR)

24-01-2010 – 04-02-2010

Princess Haya Biotechnology Center (PHBC), Jordan University of Science and Technology (JUST), Irbid, Jordan

1. Controlling Laboratory Biorisks

16-02-2009 – 21-02-2009

Biosecurity Engagement program (BEP), US State department, Sandia National Laboratories (SNL), Albuquerque, New Mexico, USA

1. Biosafety for Safety and Health Professionals

05-08-2009 – 07-08-2009

University of North Carolina, Occupational Safety and Health Education and Research Center (OSHERC), Norfolk, Virginia, USA

1. Refresher Course “Artificial Insemination in Cattle”

20-02-2006 – 01-03-2006

Cattle breeding and Dairy Farm, Harichand, District Charsadda, Strengthening Livestock Services Project (SLSP), Livestock and Dairy Development Department, Peshawar, Khyber Pakhtunkhwa, Pakistan

1. Field Epidemiology and Laboratory Training Program

06-02-2008 – 08-02-2008

National Institute of Health (NIH), Islamabad, Pakistan

1. Application of Molecular Techniques for the Improvement of Livestock

14-12-2008– 16-12-2008

University of Veterinary and Animal Sciences (UVAS), Lahore, Pakistan

**Participation in International/National Seminars / workshops/ conferences**

1. International Zoological Conference at Sindh Agriculture University Tandojam, Hyderabad, Sindh, Pakistan, March 1 – 3, 2005.
2. Education for Wildlife Sustainability Conference at University of Veterinary and Animal Sciences, Lahore, Pakistan, January 30 – 31, 2008.
3. Participated in 1st Regional General Public Science and Technology Model Competition at Pakistan Forest Institute, Peshawar organized by Directorate of Science and Technology, Khyber Pakhtunkhwa, June 27 – 28, 2008.
4. Participated as a Resource Person in a workshop organized by “Relief International”, Biosecurity Engagement Program (BEP) of US state department and delivered presentation on “Biosafety and Biosecurity Measures” and highly fatal viral disease “Crimean Congo Hemorrhagic fever (CCHF), 29 -30th June, 2010.
5. Certificate of participation in One Day Seminar “Livestock for Life Fighting zoonoses in Pakistan”, held on December 28, 2011, organized by Relief International at Khyber Pakhtunkhwa Agricultural University Peshawar.
6. Certificate of participation in One Day Workshop “Higher Education Quality Assessment” held on December 13, 2011, organized by Quality Enhancement Cell (QEC), Khyber Pakhtunkhwa Agricultural University Peshawar.
7. Certificate of organizing International Workshop on Dairy Science Park (IW-DSP), November 21 – 23, 2011 at Khyber Pakhtunkhwa Agricultural University Peshawar.
8. Workshop “Livestock for life” on Zoonotic Diseases organized by “Relief International” Biosecurity Engagement Program (BEP) of US state department on 17th- 18th May, 2010.

**Participation in Extracurricular activities:**

1. Certificate of first position in the Inter-faculties “Presidential Cup competition 2013” HZAU, Wuhan, P.R.China.
2. Certificate of excellent performance in the “New Year Party, 2014” HZAU, Wuhan, P.R.China.
3. Certificate of merit in the Inter-colleges “Badminton Championship, 2015” HZAU, Wuhan, P.R.China.
4. Certificate of merit in the 2nd International Doubles Badminton Championship HZAU, Oct 2015”, Wuhan, P.R.China.
5. Certificate of merit in the 3rd International Doubles Badminton Championship HZAU, April 2016”, Wuhan, P.R.China.
6. Participated as a captain of cricket team in “Interschool Cricket competition”, got Certificate of Merit, 1999-2000.
7. Participated as a captain of cricket team in “Interfaculty Cricket Championship”, got Certificate of Merit, 27-12-2004 – 03-01-2005.
8. Participated as a member of team in “Volley ball competition”, got Certificate of Merit, 24-1-2007.
9. Participated as a member of team in “Hand Ball competition”, got Certificate of Merit, 24-1-2007.

**References:**

1. **Professor Guo Aizhen, PhD**

College of Veterinary Medicine

Huazhong Agricultural University

Wuhan, 400070, China

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Email: [aizhen@mail.hzau.edu.cn](mailto:aizhen@mail.hzau.edu.cn).

1. **Professor Dr. Muhammad Subhan Qureshi**

DVM, MSc Hons, PhD (Theriogenology)

Dean, Faculty of Animal Husbandry and Veterinary Sciences,

The University of Agriculture, Peshawar-25120, Pakistan

Adjunct Professor, Charles Sturt University, Locked Bag 588, Wagga Wagga NSW 2678, Australia,

Phone Tel: +92 91 9221028, Mobile: +92 300 587 7933, Fax: +92 91 9216520

Email: [drmsqureshi@aup.edu.pk](mailto:drmsqureshi@aup.edu.pk), [mqureshi@csu.edu.au](mailto:mqureshi@csu.edu.au)

1. **Professor Dr. Umar Saddique Khattak**

DVM, MSc Hons, PhD (Pathology)

Chairman,Department of Animal Health,

Faculty of Animal Husbandry and Veterinary Sciences,

The University of Agriculture, Peshawar, Pakistan

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1. **Professor Dr. Sarzamin Khan**

PhD,PostDoc(Japan)  
Chairman, Department of Poultry Science  
Faculty of Animal Husbandry and Veterinary Sciences,

The University of Agriculture, Peshawar, Pakistan, [www.aup.edu.pk](http://www.aup.edu.pk)

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