


BIOGRAPHICAL SKETCH

Dr. Muhammad Abu Bakr Shabbir	Assistant Professor (TTS)
Ph.D., M.Phil., DVM, RVMP (Pak) HEC Approved PhD Supervisors Email: abubakr.shabbir@uvas.edu.pk Contact: +923334027824	

EDUCATION

INSTITUTION AND LOCATION	Qualification	MM/YY	FIELD OF STUDY
University of Agriculture, Faisalabad, Pakistan	DVM	06/2010	Veterinary Medicine
University of Agriculture, Faisalabad, Pakistan	M.Phil	12/2012	Microbiology
Huazhong Agricultural University, Wuhan, China	Ph.D	12/2018	Microbiology

A. AREAS OF INTEREST

My research interests are focused on the veterinary bacteriology, CRISPR-cas system involvement in virulence, antibiotic resistance and how this system changes the pathophysiology of bacteria. My future goals will be to utilize my potential of microbiology research in veterinary sciences.

B. POSITIONS AND HONORS

Positions and Employment

Aug 2019 – To date	Assistant Professor (TTS) Department of Microbiology, University of Veterinary and Animal Sciences, Lahore.
Jan 2013 – Aug 2014	Lab Manager, K & N's poultry diagnostic and research institute at Abbottabad.
Nov 2011 – Dec 2012	Research Assistant, University Diagnostic Laboratory, University of Veterinary and Animal Sciences, Lahore.

Honors

2014-2018 Won Ph.D scholarship from Chinese Scholarship Council from September 2014 to December 2018.

C. PEER-REVIEWED PUBLICATIONS

Book Chapter

1. Pk/PD for prediction and contain of antimicrobial resistance. IAPC Publishing, Zagreb, Croatia, 2018.

2. Research Articles

NO.	TITLE AND AUTHORS	PUBLICATION DETAIL	IF
1.	Shabbir MAB , Tang Y, Wu Q, Li J, Shabbir MZ, Ahmed S, Sattar A, Maan MK, Hao H and Yuan Z (2018). The CRISPR-cas system promotes antimicrobial resistance in <i>Campylobacter jejuni</i>	Future Microbiology	3.190
2.	Shabbir MAB , Tang Y, Hao H, Xu Z, Lin M, Cheng G, Dan M, Wang X, Liu Z and Yuan Z (2018). The involvement of Cas9 gene in virulence of <i>Campylobacter jejuni</i> .	Frontiers in Cellular Microbiology and Infection.	3.520
3.	Shabbir MAB , Shabbir MZ, Sajid A, Wu Q, Maan MK, Ahmed S, Li J, Hao H and Yuan Z (2018). CRISPR-cas system: Biological function in microbes and its use to treat antimicrobial resistant pathogens	Annals of Clinical Microbiology and Antimicrobials	2.924
4.	Shabbir MAB , Hao H, Shabbir MZ, Hussain HI, Iqbal Z, Ahmed S, Sattar A, Iqbal M, Li J and Yuan Z. Survival and Evolution of CRISPR-Cas System in Prokaryotes and Its Applications.	Frontiers in Immunology (2016). 7:375	6.429
5.	Shabbir MAB , Hao H, Shabbir MZ, Wu Q, Sattar A and Yuan Z. Bacteria vs. Bacteriophages: Parallel Evolution of Immune Arsenals	Frontiers in Microbiology (2016). 7:1292.	4.019
6.	Ul-Rahman, Aziz, and Muhammad Abu Bakr Shabbir. "In silico analysis for development of epitopes-based peptide vaccine against Alkhurma hemorrhagic fever virus."	<i>Journal of Biomolecular Structure and Dynamics</i> 38, no. 10 (2020): 3110-3122	3.310
7.	Ul-Rahman, Aziz, Muhammad Abu Bakr Shabbir , Mushtaq Ahmed, and Muhammad Zubair Shabbir. "A comparative evaluation of serum biochemistry profile and antigenic relatedness among velogenic and mesogenic Avian avulavirus 1 infection in chickens and pigeons.	Tropical Animal Health and Production (2020). 1-8.	1.089
8.	Wu, Qin, Xiaoyan Gao, Muhammad Abu Bakr Shabbir , Dapeng Peng, Yanfei Tao, Dongmei Chen, Haihong Hao et al. "Rapid multi-residue screening of antibiotics in muscle from different animal species by microbiological inhibition method.	Microchemical Journal (2020). 152:104417	3.206
9.	Sattar, A., Hafeez, M. A., Wu, Q., Tahir, A. H., Shabbir, M. A. B. , Chen, D., ... & Yuan, Z. (2020). Disposition of cyadox in domesticated cats following oral, intramuscular, and intravenous administration.	Journal of Veterinary Pharmacology and Therapeutics (2020) , 43(2), 97-107.	1.175
10	Huang, Lingli, Muhammad Kashif Maan, Dongting Xu, Shabbir MAB , Menghong Dai, and Zonghui Yuan. "Pharmacokinetic-pharmacodynamic modeling of cyadox against Escherichia coli in swine.	Microbial pathogenesis (2019). 135:103650	2.581
11	Wu, Q., Zhu, Q., Liu, Y., Shabbir, M. A. B. , Sattar, A., Peng, D., & Yuan, Z. A microbiological inhibition method for the rapid, broad-spectrum, and high-throughput screening of 34 antibiotic residues in milk.	Journal of Dairy Science. (2019)	3.082
12	Wu, Qin, Dapeng Peng, Qianying Liu, MAB Shabbir , Abdul Sajid, Zhenli Liu, Yulian Wang, and Zonghui Yuan. A novel microbiological method in microtiter plates for screening seven kinds of widely used antibiotics	Frontiers in microbiology (2019)	4.259

	residues in milk, chicken egg and honey.		
13	Ahmad, Awais Ali, MAB Shabbir , Yang Xin, Muhammad Ikram, Mian Abdul Hafeez, Chunqun Wang, Ting Zhang et al (2019). Characterization of the Complete Mitochondrial Genome of a Whipworm <i>Trichuris skrjabini</i> (Nematoda: Trichuridae)	Genes (2019). 10 (6):438	3.331
14	Liu Q, Lei Z, Guo J, Liu A, Lu Q, Fatima Z, Khaliq H, MAB Shabbir , Maan MK, Wu Q, Dai M, Wang X, Pan Y and Yuan Z. Mequindox-Induced Kidney Toxicity Is Associated With Oxidative Stress and Apoptosis in the Mouse.	Frontiers in Pharmacology (2018). 9:436.	3.83
15	Li J, Hao H, Cheng G, Liu C, Ahmed S, MAB Shabbir , Hussain HI, Dai M and Yuan Z. Microbial Shifts in the Intestinal Microbiota of Salmonella Infected Chickens in Response to Enrofloxacin.	Frontiers in Microbiology (2017). 8:1711.	4.076
16	Li, J., Hao, H., Cheng, G., Wang, X., Ahmed, S., Shabbir, M. A. B. , et al. The effects of different enrofloxacin dosages on clinical efficacy and resistance development in chickens experimentally infected with <i>Salmonella Typhimurium</i> .	Scientific Reports (2017). Doi:10.1038/s41598017-12294-7	4.122
17	Ahmed S, Ning J, Cheng G, Ahmed I, Li J, Mingyue L, Qu W, Iqbal M, MAB Shabbir and Yuan Z. Receptor based screening assays for the detection of antibiotic residues-A review.	Talanta (2017). 176-186	3.545
18	Sattar, Adeel, Shuyu Xie, Lingli Huang, Zahid Iqbal, Wei Qu, MAB Shabbir , Yuanhu Pan, Hafiz Iftikhar Hussain, Dongmei Chen, Yanfei Tao, Zhenli Liu, Mujahid Iqbal and Zonghui Yuan. "Pharmacokinetics and Metabolism of Cyadox and Its Main Metabolites in Beagle Dogs Following Oral, Intramuscular, and Intravenous Administration	Frontiers in Pharmacology (2016). 7:236	3.83
19	Sattar Adeel, Shuyu Xie, Xu Wang, Hafiz Iftikhar Hussain, Zahid Iqbal, Yuanhu Pan, Mujahid Iqbal, MAB Shabbir , and Zonghui Yuan. Metabolism and toxicity of arsenicals in mammals.	Environmental Toxicology and Pharmacology (2016). 48:214-224.	2.77
20	Shabbir MZ, Jamil T, Ali AA, Ahmad A, Naeem M, Chaudhary MH, Bilal M, Ali MA, Muhmmad K, Yaqub T, Bano A, Mirza AI, MAB Shabbir , McVey WR, Patel K, Francesconi S, Jayarao BM and Rabbani M. Prevalence and distribution of soil-borne zoonotic pathogens in Lahore district of Pakistan.	Frontiers in Microbiology (2015). 6:917.	4.076
21	Anees, M., M. Z. Shabbir, K. Muhammad, J. Nazir, MAB Shabbir , J. J. Wensman and M. Munir. Genetic analysis of Peste des petits ruminants virus from Pakistan.	Veterinary Research (2013). 9:60.	2.903
22	Shabbir, M. Z., S. Zohari, T. Yaqub, J. Nazir, MAB Shabbir and N. Mukhtar. Genetic diversity of Newcastle disease virus in Pakistan: a countrywide perspective.	Virology Journal (2013). 10:170.	2.465
23	Shabbir, MZ., Park, J., Rabbani M, Muhammad K, Younus M, Rehman M, MAB Shabbir , Ahmad A and Harvill ET. Molecular identification of respiratory microbiota of a young ostrich (<i>Struthio camelus</i>) using tracheo broncho alveolar lavage.	Journal of Animal and Plant sciences (2013). 23 (5):1276-1280.	0.407
24	Shabbir MZ, RK Khalid, DM Freitas, MT Javed, M Rabbani, T Yaqub, A Ahmad, MAB Shabbir and M Abbas. Serological evidence of selected abortifacients in a dairy herd with history of abortion.	Pakistan Veterinary Journal (2013). 33 (1):19-22	1.217
25	Munir, M., M. Z. Shabbir, T. Yaqub, MAB Shabbir , N. Mukhtar, M. R. Khan and M. Berg. Complete Genome Sequence of a Velogenic Neurotropic Avian Paramyxovirus 1 Isolated from Peacocks (<i>Pavo cristatus</i>) in a Wildlife Park, Pakistan.	Journal of Virology (2012). 86(23):13113-13114.	2.465
26	Shabbir, M.Z., R. K. Khalid, D.M. Freitas, M. T. Javed, M. Rabbani, A. Ahmad, T. Yaqub, MAB Shabbir and M. Abbas. A case study on serological evidence of selected abortifacients in a dairy herd with history of abortion in Lahore.	Pakistan Veterinary Journal (2012). 33 (1):19-22.	1.217
27	Ahmad, A., M. Rabbani, M. Z. Shabbir, K. Muhammad, T. Yaqub, M. K. Saleemi, R. K. Khalid, MAB Shabbir and S. Y. Alvi. Comparative suitability of ear notch biopsy and serum pairs for detecting nature of bovine viral diarrhoea virus infection in dairy herds.	Pakistan veterinary Journal (2012). 32 (3):451-455.	1.217
28	Shabbir, M. Z., M. M. Nazir, A. Maqbool, M. Lateef, MAB Shabbir , A. Ahmad, M. Rabbani, T. Yaqub, M. U. Sohail, and M. Ijaz. Seroprevalence of <i>Neospora caninum</i> and <i>Brucella abortus</i> in Dairy Cattle Herds with High Abortion Rates.	Journal of Parasitology (2011). 97 (4):740-742.	1.395

D. PROJECTS SUBMITTED

Sr. #	Title (Topic)	Progress
1.	Prevalence and characterization of mcr-1 gene in <i>Salmonella</i> of both poultry and humans.	SRGP submitted to HEC
2.	Molecular characterization and potential transmission of colistin resistant genes in <i>Escherichia coli</i> from poultry to humans.	Submitted to International Foundation for Science
3.	Deciphering resistant pattern of mobilized colistin gene of multidrug resistant <i>Salmonella enterica</i> using transcriptomic analysis.	NRPU submitted to HEC
4.	Phylogenomic analysis of CRISPR-cas system in multidrug resistant <i>Campylobacter jejuni</i> .	PCST

E. COFERENCE/ SEMINAR ORGANIZED

Sep 13-15, 2019	Pak Poultry Association and UVAS Lahore International Poultry Expo 2019
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F. Reviewer of International Journal

1. Infection and Drug Resistance

