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Specialization:

Antibiotic Residue and Food Microbiology

Education

PhD Basic veterinary medicine (2014 -2019) Huazhong Agricultural University, Wuhan, China.

MS Microbiology (2011 -2013) Stockholm University, Stockholm, Sweden.

BSc Hons (2004 -2008) Hazara University, Mansehra, Pakistan

Experience

- Served as a Lecturer of Microbiology in Department of Animal Health, University of Agriculture Peshawar Pakistan, (*Sep 2008 to Jul 2009*).
- Served as a Lecturer of Microbiology in Department of Microbiology, Government Postgraduate College, Mandian, Abbottabad, Pakistan (*Mar 2014 to July 2014*).
- Research Traineeship in Prokaryotic Genetics (Aug 2011 –Oct 2011) at Department of Molecular Biosciences, The Wenner Gren Institute (MBW) Stockholm, Sweden

Research Interest:

Method Development for Antibiotic Residue Detection from Food Matrices

Publication Highlights

Book Chapters

1. Abdul Sajid, **Saeed Ahmed**, Muhammad Abu Bakr Shabbir, Muhammad Kashif Maan, Ijaz Ahmed, Jun Li, Zonghui Yuan, Haihong Hao: PK/PD for prediction and contain of antimicrobial resistance. Fighting Antimicrobial Resistance, 07/2018: pages 371-388, ISBN: 978-953-56942-6-7.
2. Ijaz Ahmad, **Saeed Ahmed**, Shakoore Ahmad: Diclofenac induced effect. 01/2017; Lambert academic publishing

Journal Publications

First Author

1. **Saeed Ahmed**, Jianan Ning, Guyue Cheng, Muhammad Kashif Maan, Ting Chen, Ijaz Ahmad, Samah Attia Algharib, Zonghui Yuan: Development and validation of an enzyme-linked receptor assay based on mutant protein I188K/S19C/G24C for 40 beta-lactams antibiotics detection in 13 food samples. *Microchemical Journal* Volume 152, January 2020, 104354. ISSN 0026-265X.
2. **Jianan and Saeed Ahmed**, Guyue Cheng, Ting Chen, Yulian Wang, Dapeng Peng, Zonghui Yuan: Analysis of the stability and affinity of BlaR-CTD protein to β -lactam antibiotics based on docking and mutagenesis studies. *Journal of Biological Engineering* 12/2019; 13(1). ISSN: 1754-1611.
3. **Saeed Ahmed** and Jianan Ning, Guyue Cheng, Ijaz Ahmad, Jun Li, Liu Mingyue, Wei Qu, Mujahid Iqbal, M.A.B. Shabbir, Zonghui Yuan: Receptor-based screening assays for the detection of antibiotics residues – A review. *Talanta* 05/2017; 166:176-186. ISSN: 0039-9140.
4. **Saeed AHMED**, Ijaz AHMAD, Shakoora AHMAD, Zahir SHAH, Muqadar SHAH, Farhan Anwar KHAN: Analysis of Pilus Biogenesis Genes in Bacteria Expressing Type IV Pili, *Journal of Kafkas Üniversitesi Veteriner Fakültesi Dergisi* -128. ISSN 1300-6045.
5. **Saeed Ahmed**, Jianan Ning, Dapeng Peng, Ting Chen, Ijaz Ahmad, Aashaq Ali, Zhixin Lei, Muhammad Abu bakr Shabbir, Guyue Cheng & Zonghui Yuan, Current advances in Immunoassays for the detection of antibiotics residues (A review) *Journal of Food and Agriculture Immunology*, 31, 1, 2020, 268-290. ISSN: 1465-3443.

2020

6. Samah Attia Alghariba, Ali Dawood, Kaixiang Zhoua, Dongmei Chena, Chao Lia, Kuiyu Menga, Muhammad Kashif Maana, **Saeed Ahmed**, Lingli Huangc, Shuyu Xiea, Designing, structural determination and biological effects of rifaximin loaded chitosan-carboxymethyl chitosan nanogel, *Journal of Carbohydrate Polymers* 248 July (2020) 116782. ISSN 0144-8617.
7. Muhammad Hamza, Ashaq Ali, Suliman Khan, **Saeed Ahmed**, Zarlish Attique, Saad Ur Rehman, Ayesha Khan, Hussain Ali, Muhammad Rizwan, Anum Munir, Arshad Mehmood Khan, Faiza Siddique, nCoV-19 peptides mass fingerprinting identification, binding, and blocking of inhibitors flavonoids and anthraquinone of *Moringa oleifera* and hydroxychloroquine, *Journal of Biomolecular Structure and Dynamics*, Published 22 June, 2020, ISSN: 1538-0254.
8. Muhammad Kashif Maan, Adeel Sattar, Kun Mia, Muhammad AbuBakr Shabbir, Shuyu Xie, Li Xin, **Saeed Ahmed**, Samah Attia Algharib, Lingli Huang, Zonghui Yuan, Integration of PK/PD for dose optimization of aditoprim against *Trueperella pyogenes* causing endometritis in bovines, *Journal of Microbial Pathogenesis*, Volume 142, May 2020, 104097, ISSN 0882-4010.

2019

8. Guyue Cheng, Jianan Ning, **Saeed Ahmed**, Junhong Huang, Rizwan Ullah, Boyu An, Haihong Hao, Menghong Dai, Lingli Huang, Xu Wang, Zonghui Yuan: Selection and dissemination of antimicrobial resistance in Agri-food production. *Antimicrobial Resistance & Infection Control* 12/2019; 8(1), 158. ISSN: 2047-2994.
9. Muhammad Abu Bakr Shabbir, Muhammad Zubair Shabbir, Qin Wu, Sammina Mahmood, Abdul Sajid, Muhammad Kashif Maan, **Saeed Ahmed**, Umer Naveed, Haihong Hao, Zonghui Yuan: CRISPR-cas system: biological function in microbes and its use to treat antimicrobial resistant pathogens. *Annals of Clinical Microbiology and Antimicrobials* 12/2019; 18(1) 21. ISSN: 1476-0711.
10. Deyu Huang, LuQing Cui, **Saeed Ahmed**, Fatima Zainab, Qinghua Wu, Xu Wang, Zonghui Yuan: An overview of epigenetic agents and natural nutrition products targeting DNA methyltransferase, histone deacetylases and microRNAs. *Food and Chemical Toxicology* 123, 1, 2019, 574-594. ISSN: 0278-6915.
11. Xiaoya Han, Feng Sheng, Dexin Kong, Yulian Wang, Yuanhu Pan, Mo Chen, Yanfei Tao, Zhenli Liu, **Saeed Ahmed**, Zonghui Yuan, Dapeng Peng: Broad-spectrum monoclonal antibody and a sensitive multi-residue indirect competitive enzyme-linked immunosorbent assay for the antibacterial synergists in samples of animal origin. *Food Chemistry* 5/2019; 280. 20-26. ISSN: 0308-8146.

2018

12. Muhammad AB Shabbir, Qin Wu, Muhammad Z Shabbir, Abdul Sajid, **Saeed Ahmed**, Adeel Sattar, Yanping Tang, Jun Li, Muhammad K Maan, Haihong Hao, Zonghui Yuan: The CRISPR-cas system promotes antimicrobial resistance in *Campylobacter jejuni*. *Future Microbiology* 13(16), 12/2018; 1157-1774. ISSN: 1746-0921.
13. Yanping Wang, Ling Zhang, **Saeed Ahmed**, Yonghong Liu, Xianqiang Li: Pharmacokinetic of florfenicol in pulmonary epithelial lining fluid of swine and effects of anesthetic agent on drug plasma disposition kinetics. *Arquivo Brasileiro de Medicina Veterinária e Zootecnia* 10/2018; 70(5):1497-1504. ISSN 1678-4162.
14. Qianying Liu, Zhixin Lei, Qin Wu, Ihsan Awais, Muhammad A. B. Shabbir, **Saeed Ahmed**, Zainab Fatima, Xu Wang, Yuanhu Pan, Shuyu Xie, Zonghui Yuan: The Reproductive Toxicity of Mequindox in a Two-Generation Study in Wistar Rats. *Frontiers in Pharmacology* 9, 08/2018, 870. ISSN 1663-9812.
15. Zhixin Lei, Qianying Liu, Yi Qi, Bing Yang, Haseeb Khaliq, Jincheng Xiong, Gopi Krishna Moku, **Saeed Ahmed**, Kun Li, Hui Zhang, Wenqiu Zhang, Jiyue Cao, Qigai He: Optimal Regimens and Cutoff Evaluation of Tildipirosin Against *Pasteurella multocida*. *Frontiers in Pharmacology* 9, 07/2018, 765. ISSN 1663-9812.
16. L. Zhang, Y. Li, Y. Wang, A. Sajid, **Saeed Ahmed**, X. Li: Integration of pharmacokinetic– pharmacodynamic for dose optimization of doxycycline against

Haemophilus parasuis in pigs. Journal of Veterinary Pharmacology and Therapeutics, 41(1), 2018, 706-718.

17. Zhixin Lei, Qianying Liu, Bing Yang, Haseeb Khaliq, **Saeed Ahmed**, Bowen Fan, Jiyue Cao, Qigai He: Evaluation of Marbofloxacin in Beagle Dogs After Oral Dosing: Preclinical Safety Evaluation and Comparative Pharmacokinetics of Two Different Tablets. Frontiers in Pharmacology 04/2018; 9:306. ISSN 1663-9812.
18. Zhixin Lei, Qianying Liu, Shuaike Yang, Bing Yang, Haseeb Khaliq, Kun Li, **Saeed Ahmed**, Abdul Sajid, Bingzhou Zhang, Pin Chen, Yinsheng Qiu, Jiyue Cao, Qigai He: PK-PD Integration Modeling and Cutoff Value of Florfenicol against Streptococcus suis in Pigs. Frontiers in Pharmacology 9, 01/2018, 2. ISSN 1663-9812.
19. Guoliang Dong, Yuanhu Pan, Yulian Wang, **Saeed Ahmed**, Zhenli Liu, Dapeng Peng, Zonghui Yuan: Preparation of a broad-spectrum anti-zearalenone and its primary analogues antibody and its application in an indirect competitive enzyme-linked immunosorbent assay. Food Chemistry 247, 5/2018, 8-15. ISSN: 0308-8146.
20. Zhixin Lei, Qianying Liu, Bing Yang, **Saeed Ahmed**, Jiyue Cao, Qigai He: The pharmacokinetic-pharmacodynamic modeling and cut-off values of tildipirosin against Haemophilus parasuis. Oncotarget 9(2), 1/2018, 1673. ISSN 1949-2553.

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21. Jun Li, Haihong Hao, Guyue Cheng, Xu Wang, **Saeed Ahmed**, Muhammad Abu Bakr Shabbir, Zhenli Liu, Menghong Dai, Zonghui Yuan: The effects of different enrofloxacin dosages on clinical efficacy and resistance development in chickens experimentally infected with Salmonella Typhimurium. Scientific Reports 7(1), 12/2017, 1-12. ISSN 2045-2322.
22. Zhixin Lei, Shulin Fu, Bing Yang, Qianying Liu, **Saeed Ahmed**, Lei Xu, Jincheng Xiong, Jiyue Cao, Yinsheng Qiu: Comparative transcriptional profiling of tildipirosin-resistant and sensitive Haemophilus parasuis. Scientific Reports 7(1), 08/2017, 1-15. ISSN 2045-2322.
23. Bing Yang, Zhixin Lei, Yishuang Zhao, **Saeed Ahmed**, Chunqun Wang, Shishuo Zhang, Shulin Fu, Jiyue Cao, Yinsheng Qiu: Combination Susceptibility Testing of Common Antimicrobials in Vitro and the Effects of Sub-MIC of Antimicrobials on Staphylococcus aureus Biofilm Formation. Frontiers in Microbiology 8, 11/2017, 2125. ISSN 1664-302X.
24. Jun Li, Haihong Hao, Guyue Cheng, Chunbei Liu, **Saeed Ahmed**, Muhammad A. B. Shabbir, Hafiz I. Hussain, Menghong Dai, Zonghui Yuan: Microbial Shifts in the Intestinal Microbiota of Salmonella Infected Chickens in Response to Enrofloxacin. Frontiers in Microbiology 8, 09/2017, 1711. ISSN 1664-302X.
25. Qianying Liu, Zhixin Lei, Anxiong Huang, Qirong Lu, Xu Wang, **Saeed Ahmed**, Ihsan Awais, Zonghui Yuan: Mechanisms of the Testis Toxicity Induced by Chronic Exposure to Mequindox. Frontiers in Pharmacology 8, 09/2017, 679. ISSN 1663-9812.

26. Ting Chen, Guyue Cheng, **Saeed Ahmed**, Yulian Wang, Xu Wang, Haihong Hao, Zonghui Yuan: New methodologies in screening of antibiotic residues in animal-derived foods: Biosensors. *Talanta* 175, 07/2017, 435-442. ISSN: 0039-9140.
 27. Jun Li, Shuyu Xie, **Saeed Ahmed**, Funan Wang, Yufeng Gu, Chaonan Zhang, Ximan Chai, Yalan Wu, Jinxia Cai, Guyue Cheng: Antimicrobial Activity and Resistance: Influencing Factors. *Frontiers in Pharmacology* 8, 06/2017, 364. ISSN 1663-9812.
 28. Zhixin Lei, Qianying Liu, Bing Yang, **Saeed Ahmed**, Jincheng Xiong, Tingting Song, Pin Chen, Jiyue Cao, Qigai He: Evaluation of Bioequivalence of Two Long-Acting 20% Oxytetracycline Formulations in Pigs. *Frontiers in veterinary science* 4(4), 05/2017. 2297-1769.
 29. Jiyue Cao, Lei Z Liu, Yang B Xiong, Zhixin Lei, Qianying Liu, Bing Yang, Jincheng Xiong, Kun Li, **Saeed Ahmed**, Liping Hong, Pin Chen, Qigai He: Clinical Efficacy and Residue Depletion of 10% Enrofloxacin Enteric-Coated Granules in Pigs. *Frontiers in Pharmacology* 8(8), 03/2017, 294. ISSN 1663-9812.
- 2016**
30. Mujahid Iqbal, **Saeed Ahmed**: Aqueous two-phase system (ATPS): an overview and advances in its applications. *Biological Procedures Online* 18(1), 10/2016, 18. ISSN: 1480-9222.
 31. Muhammad Abu, Bakr Shabbir, Haihong Hao, Muhammad Zubair Shabbir, Hafiz Iftikhar Hussain, Zahid Iqbal, **Saeed Ahmed**, Adeel Sattar, Mujahid Iqbal, Jun Li, Zonghui Yuan: Survival and Evolution of CRISPR/Cas System in Prokaryotes and Its Applications. *Frontiers in Immunology* 7, 10/2016, 375. ISSN 1664-3224.
 32. Guyue Cheng, Menghong Dai, **Saeed Ahmed**, Haihong Hao, Xu Wang, Zonghui Yuan: Antimicrobial Drugs in Fighting against Antimicrobial Resistance. *Frontiers in Microbiology* 7, 04/2016, 470. ISSN 1664-302X.
- 2013**
33. Din, A. M. U, S. A. Khan, **S. Ahmed**, A study on the seroprevalence of Brucellosis in Human and Goat population of district Bhimber azad jamu and kashmir. *Journal of Animal and Plant Sciences* 23, 11/2013, 113-8. ISSN 1018-7081.
 34. I Ahmad, T. A. Qureshi, U. Sadique, S. A. Khan, **S. Ahmed**, Z. U. Rehman, S. Bahadar, M. Mushtaq: HEMATOLOGICAL EFFECTS OF DICLOFENAC SODIUM IN GOAT. *Journal of Animal and Plant Sciences* 23(1), 01/2013, 103-107. ISSN 1018-7081.