

CURRICULUM VITAE

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Nationality: The People's Republic of China

Education:

- 1/9/1991-1/7/1995 B.S. in Veterinary Medicine, Xinjiang Agricultural University in Xinjiang, China
- 1/9/1995-1/7/1998 M.S. in Preventive Veterinary Science, Xinjiang Agricultural University in Xinjiang, China
- 1/9/2004-23/3/2008 Ph.D. Microbiology, Institution of Microbiology, Chinese Academy of Science, China)
- 1/1/2009-12/29/2009 Post-doctoral Research Associate, Case Western Reserve University, USA
- 1/1/2010-7/29/2011 Post-doctoral Research Associate, Iowa state university, USA

Area of Research:

Veterinary Microbiology and immunology. Research mainly focused on Veterinary infectious disease diagnosis, prevention and immunology, including specifically stating the pathogenic and immune mechanism, immune evasion and immune protection mechanism using molecular method, developing application technology and products for the infectious disease diagnosis and immune prevention. Our research projects involving *staphylococcus aureus* from bovine milk, *Streptococcus dysgalactiae*, *streptococcus.equissp.equi*, *salmonella abortusequi*, *equine rhinopneumonitis*, *bovine viral diarrhea virus*. We investigated multi-adhesins of pathogenic staphylococcus and study the pathogenesis and immune mechanism of them. Based on this we developed nanometer carrier DNA vaccine for prevention and control of bovine mastitis. In addition, we developed research on horse strangles and *salmonella abortusequi*, including molecular epidemic investigation, molecular diagnosis and immunologic prevention. From 2008

we insist studying and solving general and key scientific problems as our starting point, meeting production needs as our scientific research direction. We developed and established a series of technology of core technology with independent intellectual property rights. These research results will reduce drug resistance of important pathogen from plant eating livestock, promote animal healthy farming, barrier animal products safety.

Research Grants

- 12/2012-12/2015 Research on the common technology of infectious disease prevention and control of courser、endurance horse and milk horse (No.2012BAD46B01)
- 1/2012-12/2015 Study on the relation between genetic diversity of adhesins of *Staphylococcus aureus* isolated in Xinjiang dairy cattle and their immunity (No. 31160191)
- 1/2013-12/2016 Study on the molecular mechanism of adhesins of *Staphylococcus aureus* isolated in Xinjiang dairy cattle (No. 31260222)
- 1/2013-12/2015 Study on Nanoparticles carrier DNA vaccine of dairy cow mastitis (No.201311108)
- 1/2014-12/2017 Exploration and application study of DNA injection in combination with electroporation for vaccination of dairy cattle mastitis(No.Y141210011)
- 1/2017-12/2020 Study on molecular immune mechanism of persistent infection of *Streptococcus equi* subsp *equi* (No. 31660707)

Selected Publications in English (*indicates corresponding author)

- [1] Zhao Y, Chang J, Zhang B, Tong P, Wang C, Ran D, *Su Y. TLR-5 agonist *Salmonella abortus equi* flagellin FliC enhances FliC-gD-based DNA vaccination against equine herpesvirus 1 infection. *Arch Virol.* 2019,164(5):1371-1382.
- [2] Xiaohui Ma , Caidie Wang , Baojiang Zhang, Lining Xia, *Yan Su . Antibody kinetics and immune profile analysis of a *Streptococcus equi* DNA vaccine expressing the FljB and SeM fusion protein in murine and equine models. *Research in Veterinary Science.* 2019.125: 82-88.
- [3] Yuanyang Yi,Lingling Su,Bin Li,Shanchun Li,Baojiang Zhang,and *Yan Su. Analysis of the Genetic Diversity in Methicillin-Resistant *Staphylococcus aureus* Isolates from Bovine Subclinical Mastitis Case in Xinjiang, China. *Foodborne Pathogens and Disease,* 2018,15(9): 568-575.
- [4] *Su Y, Zhang B, Su L.CD4 detected from *Lactobacillus* helps understand the interaction between *Lactobacillus* and HIV. *Microbiol Res.* 2013, 168(5):273-277.

- [5] Yan Su, Xiaodong Zhu, Yao Wang, Min Wu, *Po Tien. Evaluation of the Glu11 and Gly8 of H5N1 influenza hemagglutinin fusion peptide for membrane fusion using pseudotyped virus and reverse genetics[J]. Arch Virol. 2008, 153(2):247-257.
- [6] Yan Su, Huaiyi Yang, Bao-Jiang Zhang, Xiao-Xuan Qi, *Po Tien, A dual reporter gene based system to quantitate the cell fusion of avian influenza virus H5N1[J]. Biotechnol Lett, 2008, 30(1):73-79.
- [7] Yan Su, Huaiyi Yang, Bao-Jiang Zhang, Hong-Ling Jia, *Po Tien, Analysis of a point mutation of H5N1 avian influenza virus hemagglutinin in relation to virus entry into live mammalian cells[J]. Arch Virol., 2008, 153(12):2253-2261.