CURRICULUM VITAE

Personal Information				请附上照片
Name	Yunfeng Song	Gender	Male	
Position Title		Professor		
Working Department		Veterinary Medicine		
Email	syf@mail.hzau.edu.cn			
Address	Shizishan street 1, Wuhan, Hubei			
Tel	NA	Fax	NA	

Research Interest

The current research focus on three important swine pathogens, JEV, PCV2 and PRRSV. The aims are to develop new kinds of vaccine, drug, and diagnostic method.

Specifically:

Resolve the structure of viral proteins that are important during replication

The interaction between viral genome or protein and cell host

The immunoprotective epitopes in viral antigen

Identify antiviral drug, develop new virus vaccine, and establish diagnostic method.

Education & Working Experience

Huazhong Agricultural University, Ph. D. in Agriculture, Dec 2006

Huazhong Agricultural University, B.S., Dec 2000

Senior Research Specialist, North Dakota State University, USA, 2015.1- 2016.7

Publications

1. Zhou D, Pei C, Liu Z, Yang K, Li Q, Chen H, Cao S, Song Y. Identification of a protective epitope in Japanese encephalitis virus NS1 protein. Antiviral Research, 2020, Oct; 82:104930. doi: 10.1016/j.antiviral.2020.104930.
2. Zhou D, Pei C, Yang K, Ye J, Wan S, Li Q, Zhang L, Chen H, Cao S, Song Y. Development and application of a monoclonal-antibody-based blocking ELISA for detection of Japanese encephalitis virus NS1 antibodies in swine. Arch Virol. 2019 Jun;164(6):1535-1542
3. Luo G, Zhu X, Lv Y, Lv B, Fang J, Cao S, Chen H, Peng G, Song Y. Crystal structure of the dimerized N terminus of porcine circovirus type 2 replicase protein reveals a novel antiviral interface. J Virol. 2018 Aug 29;92(18). pii: e00724-18. doi: 10.1128/JVI.00724-18.
4. Shi Y, Lei Y, Ye G, Sun L, Fang L, Xiao S, Fu ZF, Yin P, Song Y, Peng G. Identification of two antiviral inhibitors targeting 3C-like serine/3C-like protease of porcine reproductive and respiratory syndrome virus and porcine epidemic diarrhea virus. Vet Microbiol. 2018 Jan;213:114-122.
5. Fang J, Li H, Kong D, Cao S, Peng G, Zhou R, Chen H, Song Y. Structure-based discovery

of two antiviral inhibitors targeting the NS3 helicase of Japanese encephalitis virus. Sci Rep. 2016 Sep 29;6:34550.
6. Song Y, Singh P, Nelson E, Ramamoorthy S. A computationally designed serological assay for porcine epidemic diarrhea virus. J Clin Microbiol. 2016 Aug;54(8):2039-46
7. Zhang Y, Li H, Peng G, Zhang Y, Gao X, Xiao S, Cao S, Chen H, Song Y. Mutational analysis of the functional sites in porcine reproductive and respiratory syndrome virus nonstructural protein 10. J Gen Virol. 2015, 96(Pt 3):547-52
8. Fang J, Sun L, Peng G, Xu J, Zhou R, Cao S, Chen H, Song Y. Identification of three antiviral inhibitors against Japanese encephalitis virus from library of pharmacologically active compounds 1280. PLoS One. 2013 Nov 4;8(11):e78425
9. Fang J, Li H, Peng G, Cao S, Zhen FF, Chen H, Song Y. Methods for detecting ATP hydrolysis and nucleic acid unwinding of Japanese encephalitis virus NS3 helicase. J Virol Methods. 2013 Dec;194(1-2):33-8.
10. Li L, Sun L, Song Y, Wu X, Zhou X, Liu Z, Zhou R. Screening of Actinobacillus pleuropneumoniae LuxS inhibitors. Curr Microbiol. 2013 Nov;67(5):564-71.
11. Zai J., Mei L., Wang C., Cao S., Fu Z.F., Chen H., Song Y. N-linked glycosylation of the premembrane protein of Japanese encephalitis virus is critical for the folding of the envelope protein and assembly of virus-like particles. Acta Virological, 2013, 57(1):27-33. (PMID: 23530821)
12. Song Y, Jin M, Zhang S, Xu X, Xiao S, Cao S, Chen H. Generation and immunogenicity of a recombinant pseudorabies virus expressing cap protein of porcine circovirus type 2. Vet Microbiol., 2007, 119(2-4):97-104.
13. Yu Z, Song Y (Co-first author), Zhou H, Xu X, Hu Q, Wu H, Zhang A, Zhou Y, Chen J, Dan H, Luo Q, Li X, Chen H, Jin M. Avian influenza (H5N1) virus in waterfowl and chickens, central China. Emerg Infect Dis., 2007, 13(5):772-5.