CURRICULUM VITAE

Personal Information

Name	Hongbo Zhou	Gender	Male
Position Title		Professor in Veterinary Medicine and Virology	
Working Department		State Key laboratory of Agricultural Microbiology, College of Veterinary Medicine, Huazhong Agricultural University.	
Email	hbzhou@mail.hzau.edu.cn		
Address	Shizi Shan, Hongshan district, Wuhan, Hubei province 430070, China		
Tel	86-27-87282608	Fax	86-27-87282608

Research Interest

1. Molecular pathogenic and cross-species infectious mechanism of influenza A virus.
2. Interaction between influenza virus and host cells.
3. Vaccine and diagnosis methods development for animal influenza.

Professional Memberships

Fellow of the State Key Laboratory of Agricultural Microbiology

Other Roles

The reviewer of PLoS ONE, Biomedical and Environmental Sciences, Virulence, Virol J.

Education & Working Experience

Education:

- School Name: Huazhong Agricultural University
  Address: Wuhan, Hubei, 430070, P.R China
  Major: Veterinary Medicine
  Degree/Diploma: Doctor
  From: Month/Year To: Month/Year: 09/2003 to 06/2006
- School Name: Huazhong Agricultural University
  Address: Wuhan, Hubei, 430070, P.R China
  Major: Veterinary Medicine
  Degree/Diploma: Master
  From: Month/Year To: Month/Year: 09/2000 to 06/2003
- School Name: Huazhong Agricultural University
  Address: Wuhan, Hubei, 430070, P.R China
  Major: Veterinary Medicine
  Degree/Diploma: Bachelor
  From: Month/Year To: Month/Year: 09/1996 to 06/2000

Working Experience

- Employer: Huazhong Agricultural University
  Employer Address: Wuhan, Hubei, 430070, P.R China
  From: Month/Year To: Month/Year: 12/2013 to now
  Your Position Title: Professor
- Employer: Huazhong Agricultural University
  Employer Address: Wuhan, Hubei, 430070, P.R China
  From: Month/Year To: Month/Year: 01/2009 to 12/2013
  Your Position Title: Associate Professor
- Employer: Imperial College London
  Employer Address: London, UK
  From(Month/Year To: Month/Year): 08/2011 to 10/2013
  Supervisor: Wendy Barclay
  Your Position Title: Research Associate
- Employer: Huazhong Agricultural University
  Employer Address: Wuhan, Hubei, 430070, P.R China
  From: Month/Year To: Month/Year: 07/2006 to 12/2008
  Supervisor: Huanchun Chen
  Your Position Title: Research Associate

Publications

1. Zhao L, Zhu J, **Hongbo Zhou***, Zhao Z, Zou Z, Liu X, Lin X, Zhang X, Deng X, Wang R, Chen H, Jin M*. Identification of cellular microRNA-136 as a dual regulator of RIG-I-mediated innate immunity that antagonizes H5N1 IAV replication in A549 cells. ***Sci Rep.*** 2015 Oct 9;5:14991.
2. Yan Zhang, Jiping Zhu, Yongtao Li, Konrad C. Bradley, Jiyue Cao, Huanchun Chen, Meilin Jin, **Hongbo Zhou***. Glycosylation on Hemagglutinin Affects the Virulence and Pathogenicity of Pandemic H1N1/2009 Influenza A Virus in Mice. ***PLoS ONE*** 2013 Apr 24;8(4):e61397..
3. Yan Zhang, Nan Wang, Jiyue Cao, Huanchun Chen, Meilin Jin, **Hongbo Zhou***. Genetic Characterization of H1N2 Swine Influenza Virus Isolated in China and Its Pathogenesis and Inflammatory Responses in Mice. ***Arch Virol*** 2013 Sep;158(9):1965-72.
4. **Hongbo Zhou**, Can Wang, Huanchun Chen, Meilin Jin. Pandemic (H1N1) 2009 Virus in Swine Herds, People's Republic of China. ***Emerging Infectious Diseases*** 2011 Sep, 9:17.
5. Yongtao Li, **Hongbo Zhou (Co-first author)**, Huanchun Chen, Meilin Jin. Response of swine lung to H1N1 swine influenza virus infection revealed by transcription analysis. ***BMC Genomics*** 2011, 12:398.
6. **Hongbo Zhou,** Shuyun Li, Anding Zhang, Huanchun Chen, and Meilin Jin. Emergence of Novel Reassortant H3N2 Influenza Viruses among Ducks in China. ***Arch Virol*** 2011 156:1045-1048.
7. **Hongbo Zhou**, Jiping Zhu, Jiagang Tu, Wei Zou, Yong Hu, Zhengjun Yu, Wensi Yin, Yongtao Li, Anding Zhang, Ziniu Yu, Huanchun Chen, and Meilin Jin. Effect on Virulence and Pathogenicity of H5N1 Influenza A Virus through Truncations of NS1 eIF4GI Binding Domain. ***Journal of Infectious Diseases*** 2010 Nov 1; 202(9): 1338-46.

8. **Hongbo Zhou**, Zhengjun Yu, Yong Hu, Jiagang Tu, Wei Zou, Yaping Peng, Jiping Zhu, Yongtao Li, Anding Zhang, Ziniu Yu, Zhiping Ye, Huanchun Chen, and Meilin Jin. The Special neuraminidase Stalk-Motif Responsible for Increased Virulence and Pathogenesis of H5N1 Influenza A Virus. ***PLoS ONE*** 2009, 17; 4(7): e6277.
9. Tu J, **Zhou H**（**Co-first author**）, Jiang T, Li C, Zhang A, Guo X, Zou W, Chen H, Jin M. Isolation and molecular characterization of equine H3N8 influenza viruses from pigs in China. ***Arch Virol*** 2009, 154:887-890.
10. **Hongbo Zhou**, Meilin Jin, Zhengjun Yu, Xiaojuan Xu, Yaping Peng, Haiya Wu, Jinlin Liu, Hu Liu, Shengbo Cao, Huanchun Chen. Effect Small Interfering RNAs Targeting Matrix (M2) and Nucleocapsid Protein (NP) Gene Inhibits Influenza A Virus Replication in Cells and Mice. ***Antiviral Research*** 2007, (76): 186-193.
11. **Hongbo Zhou**, Meilin Jin, Zhengjun Yu, Xiaojuan Xu, Yaping, Peng, Huanchun Chen. Antivirus Research on Influenza A Virus by RNA Interference. ***World Veterinary Poultry Association (WVPA)***, Beijing, China, September 10-15, 2007.
12. **Hongbo Zhou**, Meilin Jin, Huanchun Chen, Qinfeng Huang, Zhengjun Yu. Genome Sequence Analysis of the Pathogenic H5N1 Avian Influenza A Virus Isolated in China in 2004. ***Virus Genes*** 2006, 32: 85-95.
13. Cai W, Li Y, Chen S, Wang M, Zhang A, **Zhou H**, Chen H, Jin M. 14-Deoxy-11,12-dehydroandrographolide exerts anti-influenza A virus activity and inhibits replication of H5N1 virus by restraining nuclear export of viral ribonucleoprotein complexes. Antiviral Res. 2015 Jun;118:82-92.
14. Li Y, Wen Z, **Zhou H**, Wu S, Jia G, Qian W, Jin M. Porcine interferon-induced protein with tetratricopeptide repeats 3, poIFIT3, inhibits swine influenza virus replication and potentiates IFN-β production. Dev Comp Immunol. 2015 May;50(1):49-57.
15. Hu Y, Liu X, Zhang A, **Zhou H**, Liu Z, Chen H, Jin M. CHD3 facilitates vRNP nuclear export by interacting with NES1 of influenza A virus NS2. Cell Mol Life Sci. 2015 Mar;72(5):971-82.
16. Li Y, Zou W, Jia G, Ke J, Zhu J, Lin X, **Zhou H**, Jin M. The 2009 pandemic (H1N1) viruses isolated from pigs show enhanced pathogenicity in mice. Vet Res. 2013 Jun 11;44:41.
17. Moncorgé O, Long JS, Cauldwell AV, **Zhou H**, Lycett SJ, Barclay WS. Investigation of influenza virus polymerase activity in pig cells. ***J Virol.*** 2013 Jan;87(1):384-94.
18. Liu C, Zhang A, Guo J, Yang J, **Zhou H**, Chen H, Jin M. Identification of human host proteins contributing to H5N1 influenza virus propagation by membrane proteomics. ***J Proteome Res.*** 2012 Nov 2;11(11):5396-405.
19. Zou W, Ke J, Zhu J, **Zhou H**, Jin M. The antigenic property of the H5N1 avian influenza viruses

isolated in central China. ***Virol J.*** 2012 Aug 6;9:148.

20. Zhu J, Zou W, Jia G, **Zhou H**, Hu Y, Peng M, Chen H, Jin M. Analysis of cellular proteome alterations in porcine alveolar macrophage cells infected with 2009 (H1N1) and classical swine H1N1 influenza viruses. ***J Proteomics*** 2011 Dec 20.
21. Jiagang Tu, Anding Zhang, Jing Guo, Wenting Zhang, Zongzheng Zhao, **Hongbo Zhou**, Cheng Liu, Huanchun Chen, Meilin Jin. Effects of the C-terminal truncation in NS1 protein of the 2009 pandemic H1N1 influenza virus on host gene expression. ***PLoS ONE*** 2011, 6(10): e26175.
22. Zhu J, **Zhou H**, Zou W, Jin M. Effect of human activated NRAS on replication of delNS1 H5N1 influenza virus in MDCK cells. ***Virol J*** 2011 May 19; 8:240.
23. Zou W, Ke J, Zhang A, Zhou M, Liao Y, Zhu J, Tu J, **Zhou H**, Chen H, Jin M. Proteomics analysis of differential expression of chicken brain tissue proteins in response to neurovirulent H5N1 avian influenza virus infection. ***J Proteome Res*** 2010 May 3.
24. Wei Zou, ZhengjunYu, **Hongbo Zhou**, Jiagang Tu, Meilin Jin. Genetic characterization of an H5N1 avian influenza virus with neurovirulence in ducks. ***Virus Genes*** 2009, 38(2): 263-8.
25. Xiaojuan Xu, Gaoyuan Xu, **Hongbo Zhou**, Zhengjun Yu, Anding Zhang, Yunfeng Song, Meilin Jin, Huanchun Chen. Evolutionary characterization of influenza virus A/duck/Hubei/W1/2004 (H9N2) isolated from central China. ***Virus Genes*** 2008, 36(1):79-83.
26. Songlin Zhang, Lingyun Xiao, **Hongbo Zhou**, Zhengjun Yu, Huanchun Chen, Aizhen Guo, Meilin Jin. Generation and Characterization of an H5N1 Avian Influenza Virus Hemagglutinin Glycoprotein Pseudotyped Lentivirus. ***Journal of Virological Methods*** 2008, 154: 99-103.
27. Zhengjun Yu, Yunfeng Song, **Hongbo Zhou**, Xiaojuan Xu, Qiaoyun Hu, Haiya Wu, Anding Zhang, Yanjun Zhou, Jianfeng Chen, Hanbing Dan, Qingping Luo, Xiangmin Li, Huanchun Chen, Meilin Jin. 2007. Avian Influenza (H5N1) Virus in Waterfowl and Chickens, Central China. ***Emerging Infectious Diseases*** 2007, 13(5): 772-775.

Additional Information

Master's and Doctoral Supervisor