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研究方向：猪链球菌等动物细菌性病原致病机理与疫苗研制

教育背景和工作履历：

1999.9-2003.7 福建农林大学 动物科学 本科

2003.9-2006.7 福建农林大学 临床兽医学 硕士

导师 林天龙研究员，从事嗜水汽单胞菌疫苗研制

2006.9-2009.6 南京农业大学 预防兽医学 博士

导师 陆承平教授，从事猪链球菌致病机制及疫苗研制

2009.6-2011.12 南京农业大学动物医学院 讲师

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代表性著作、专利：

1. 《猪链球菌病》，陆承平、**吴宗福** 主编，北京：中国农业出版社，2015.11
2. 国家发明专利：专利名称“制备猪链球菌 GZ0565 株无痕缺失突变株的方法”（专利号 ZL201210467416.5）；发明人：**吴宗福**、邵靓、琚存祥、王卫雪、唐敏、陆承平
3. Genhui Xiao, Huanyu Tang, Shouming Zhang, Haiyan Ren, Jiao Dai, Liying Lai, Chengping Lu, Huochun Yao, Hongjie Fan, **Zongfu Wu**, 2017. *Streptococcus suis* small RNA rss04 contributes to the induction of meningitis by regulating capsule synthesis and by inducing biofilm formation in a mouse infection model. *Veterinary Microbiology*, 199: 111-119. （通讯作者）

4. **Zongfu Wu**, Jing Shao, Haiyan Ren, Huanyu Tang, Mingyao Zhou, Jiao Dai, Liying Lai, Huochun Yao, Hongjie Fan, Dai Chen, Jie Zong, Chengping Lu, 2016. A *Streptococcus suis* LysM domain surface protein contributes to bacterial virulence. *Veterinary Microbiology*, 187: 64-69.
5. **Zongfu Wu**, Chunyan Wu, Jing Shao, Zhenzhen Zhu, Weixue Wang, Wenwei Zhang, Min Tang, Na Pei, Hongjie Fan, Jiguang Li, Huochun Yao, Hongwei Gu, Xun Xu, Chengping Lu, 2014. The *Streptococcus suis* transcriptional landscape reveals adaptation mechanisms in pig blood and cerebrospinal fluid. *RNA*, 20(6):882-898.
6. **Zongfu Wu**, Weixue Wang, Min Tang, Jing Shao, Chen Dai, Wei Zhang, Hongjie Fan, Huochun Yao, Jie Zong, Dai Chen, Junning Wang, Chengping Lu, 2014. Comparative genomic analysis shows that *Streptococcus suis* meningitis isolate SC070731 contains a unique 105K genomic island. *Gene*, 535(2):156-164.
7. **Zongfu Wu**, Wei Zhang, Yang Wang, Yan Lu, Chengping Lu, 2012. Identification of Antigens Common to *Streptococcus suis* Serotypes 2 and 9 by Immunoproteomic Analysis. *Journal of Integrative Agriculture* 11(9):1517-1527.
8. **Zongfu Wu**, Wei Zhang, Jing Shao, Yang Wang, Yan Lu & Chengping Lu, 2011. Immunoproteomic assay of secreted proteins of *Streptococcus suis* serotype 9 with convalescent sera from pigs. *Folia microbiologica* 56(5): 423-430.
9. **Zongfu Wu**, Wei Zhang, Yan Lu, ChengpingLu, 2010. Transcriptome profiling of zebrafish due to *Streptococcus suis* infection. *Microbial Pathogenesis* 48(5):178-187.
10. **Zongfu Wu**, Wei Zhang, ChengpingLu, 2008. Comparative proteome analysis of secreted proteins of *Streptococcus suis* serotype 9 isolates from diseased and healthy pigs. *Microbial Pathogenesis* 45(3): 159-166.
11. **Zongfu Wu**, Wei Zhang, ChengpingLu, 2008. Immunoproteomic assay of surface proteins of *Streptococcus suis* serotype 9. *FEMS Immunology and Medical Microbiology* 53(1): 52-59.
12. Delphine Bronesky, **Zongfu Wu**, Stefano Marzi, Philippe Walter, Thomas Geissmann, Karen Moreau, François Vandenesch, Isabelle Caldelari, and Pascale

Romby, 2016. *Staphylococcus aureus* RNAIII and Its Regulon Link Quorum Sensing, Stress Responses, Metabolic Adaptation, and Regulation of Virulence Gene Expression. *Annual Review of Microbiology* 70: 299-316 (5年影响因子15.028)

13. Genhui Xiao, **Zongfu Wu**, Shouming Zhang, Huanyu Tang, Fengqiu Wang, Jiao Dai, Chengping Lu, 2017. Mac Protein is not an Essential Virulence Factor for the Virulent Reference Strain *Streptococcus suis* P1/7. *Current Microbiology* 74 (1): 90-96.

14. Pierre Fechter, Delphine Parmentier, **ZongFu Wu**, Olivier Fuchsbaauer, Pascale Romby, Stefano Marzi, 2016. Traditional Chemical Mapping of RNA Structure In Vitro and In Vivo. *Methods in Molecular Biology*, 1490: 83-103.

15. Sandeep Kumar Misra, Francine Moussan Désirée Aké, **Zongfu Wu**, Eliane Milohanic, Thanh Nguyen Cao, Pascale Cossart, Josef Deutscher, Véronique Monnet, Cristel Archambaud, and Céline Henry, 2014. Quantitative Proteome Analyses Identify PrfA-Responsive Proteins and Phosphoproteins in *Listeria monocytogenes*. *Journal of Proteome Research* 13(12):6046-6057.

16. Jing Shao, Wei Zhang, **Zongfu Wu**, Chengping Lu, 2014. The Truncated Major Pilin Subunit Sbp2 of the srtBCD Pilus Cluster Still Contributes to *Streptococcus suis* Pathogenesis in the Absence of Pilus Shaft. *Current microbiology* 69(5):703-707.

17. Xiangkai Zhuge, Fang Tang, Hongfei Zhu, Xiang Mao, Shaohui Wang, **Zongfu Wu**, Chengping Lu, Jianjun Dai, Hongjie Fan, 2016. AutA and AutR, Two Novel Global Transcriptional Regulators, Facilitate Avian Pathogenic *Escherichia coli* Infection. *Scientific Reports* 6: 25085

18. Christophe Bécavin, Christiane Bouchier, Pierre Lechat, Cristel Archambaud, Sophie Creno, Edith Gouin, **Zongfu Wu**, Andreas Kühbacher, Sylvain Brisse, M. Graciela Pucciarelli, Francisco García-del Portillo, Torsten Hain, Daniel A. Portnoy, Trinad Chakraborty, Marc Lecuit, Javier Pizarro-Cerdá, Ivan Moszer, Hélène Bierne, Pascale Cossart, 2014. Comparison of widely used *Listeria monocytogenes* strains EGD, 10403S, and EGD-e highlights genomic variations underlying differences in pathogenicity. *mBio* 5(2):e00969-00914.

19. Yang Wang, Li Yi, **Zongfu Wu**, Jing Shao, Guangjin Liu, Hongjie Fan,

Wei Zhang, Chengping Lu, 2012. Comparative proteomic analysis of *Streptococcus suis* biofilms and planktonic cells that identified biofilm infection-related immunogenic proteins. PLoS One 7(4):e33371.

20. Haodan Zhu, Dongyan Huang, Wei Zhang, **Zongfu Wu**, Yan Lu, Hongying Jia, Ming Wang, Chengping Lu, 2011. The novel virulence-related gene *stp* of *Streptococcus suis* serotype 9 strain contributes to a significant reduction in mouse mortality. Microbial Pathogenesis 51(6):442-53.

21. Yang Wang, Wei Zhang, **Zongfu Wu**, Chengping Lu, 2011. Reduced virulence is an important characteristic of biofilm infection of *Streptococcus suis*. FEMS microbiology letters 316(1): 36-43.

22. Yang Wang, Wei Zhang, **Zongfu Wu**, Xianglei Zhu, Chengping Lu, 2011. Functional analysis of *luxS* in *Streptococcus suis* reveals a key role in biofilm formation and virulence. Veterinary microbiology 152(1-2): 151-160.

23. 唐欢宇, 任海燕, **吴宗福**, 陆承平. DNA核酸酶与猪链球菌9型毒力的关系. 微生物学报. 2017, 57(4): 1-10. (通讯作者)

科研项目:

1、主持 国家自然科学基金面上项目 “猪链球菌小 RNA *rss04* 促进脑膜炎形成的分子机制” (2016.01-2019.12) (No. 31572544)

2、主持 国家青年科学基金 “LysM 结构蛋白在猪链球菌 9 型脑膜炎分离株中的分子致病机制” (2012.1-2014.12) (No. 31101828)

3、主持 教育部留学回国人员科研启动基金 “DNA 核酸酶在猪链球菌 9 型脑膜炎分离株中的分子致病 机制” (2013.05-2015.05)

4、主持 江苏省自然科学基金 “丝氨酸裂解酶等胞外酶在猪链球菌 9 型脑膜炎分离株中的分子致病机理” (2011.7-2014.6) (No. BK2011644)

5、主持 2011 年度高等学校博士学科点专项科研基金——新教师类 “5’ - 核苷酸酶在猪链球菌 9 型脑膜炎分离株中的分子致病机制” (2012.1-2014.12) (No. 20110097120016)

6、主持 南京农业大学基本科研业务费专项基金 “猪链球菌 Mac-1 结构蛋白抗吞噬对致病力的影响” (2013-2016) (No. KYZ201314)

7、主持 南京农业大学青年科学基金 “核苷酸酶等胞外酶在猪链球菌 9 型脑膜炎分离株中的分子致病机理” (2011.7-2013.6) (No. KJ2011012)

荣誉及奖项:

南京农业大学动物医学院 2015 年“勃林格殷格翰”奖教金

江苏省微生物学会 2011 年会暨青年学术报告会优秀论文

南京农业大学动物医学院 2011 年获“生泰尔”奖教金

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