CURRICULUM VITAE

Personal Information			
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Position Title		Professor	
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Research Interest

Pathogenic mechanism of Xanthomonas oryzae pv. oryzae： including the pathogenic mechanism related regulation; Interaction between pathogen and host; evolution and epidemiology of Xanthomonas oryzae pv. oryzae。Research concerning Blight disease of tomato and tobacco： Reveal the pathogenic mechanism of interaction between Ralstonia solanacearum and host, and then construct Disease resistant cultivar by genetic modification. Identification of the microbiome of rhizosphere of various tomato cultivars, and then construct synthesis community for biocontrol of Blight disease.

Professional Memberships

Other Roles

Education & Working Experience

Education:

1992.09 - 1999.07， Huazhong Agricultural university, College of life Science and technology, Bachelor/Master of Science

1999.09 - 2002.07，Wuhan university，College of life Science, Doctor of Science

Professional Experiences:

2002,9 - 2004,7 Huazhong Agricultural university, Postdoctoral Fellow

2004,7 - 2015,12 Huazhong Agricultural university, College of life Science and

technology, Associate Professor

2016,1 - Huazhong Agricultural university, College of life Science and technology, Professor

2003,7 - 2004,2 Hong Kong Polytechnic University, research associate

2007,12 - 2009,6 University of Alberta, Postdoctoral Fellow

Publications

1. Ruan, L. F., N. Crickmore, D. H. Peng and M. Sun (2015) "Are nematodes a missing link in the confounded ecology of the entomopathogen Bacillus thuringiensis?" Trends in Microbiology 23(6): 341-346.（Impact facter：9.2）
2. Ruan, L., N. Crickmore and M. Sun (2015) "Is There Sufficient Evidence to Consider Bacillus thuringiensis a Multihost Pathogen? Response to Loguercio and Argôlo-Filho." Trends in Microbiology 23(10): 587.（Impact facter：9.2）
3. Ruan, L.*, H. Wang, G. Cai, D. Peng, H. Zhou, J. Zheng, L. Zhu, X. Wang, H. Yu, S. Li, C. Geng and M. Sun (2015) "A two-domain protein triggers heat shock pathway and necrosis pathway both in model plant and nematode." Environ Microbiol.（Impact facter：6.3）
4. Zheng D.H., Yao X.Y., Duan M., Luo Y.F., Liu B., Qi P.Y., Sun M., Ruan L.F.* (2016). “Two overlapping twocomponent systems in Xanthomonas oryzae pv. oryzae contribute to full fitness in rice by regulating virulence factors expression”. Sci. Rep.（doi:10.1038/srep22768 , Impact factor: 5.578）
5. Wang J, Guo J, Wang S, Zeng Z, Zheng D, Yao X, Yu H, Ruan L* (2017) The global strategy employed by Xanthomonas oryzae pv. oryzae to conquer low-oxygen tension. J Proteomics 161: 68-77 （Impact facter：3.9）
6. Zheng D, Zeng Z, Xue B, Deng Y, Sun M, Tang YJ, Ruan L.* Bacillus thuringiensis produces the lipopeptide thumolycin to antagonize microbes and nematodes.Microbiol Res. 2018 (215):22-28.
7. Zheng D, Xue B, Shao Y, Yu H, Yao X, Ruan L.* Activation of PhoBR under phosphate-rich conditions reduces the virulence of Xanthomonas oryzae pv. oryzae. Mol Plant Pathol. 2018(19):2066-2076.

8. Liu, X. Y., L. F. Ruan, Z. F. Hu, D. H. Peng, S. Y. Cao, Z. N. Yu, Y. Liu, J. S. Zheng and M. Sun (2010). "Genome-wide Screening Reveals the Genetic Determinants of an Antibiotic Insecticide in Bacillus thuringiensis." Journal of Biological Chemistry 285(50): 39191-39200.
9. Ruan, L. F., A. Pleitner, M. G. Ganzle and L. M. McMullen (2011). "Solute Transport Proteins and the Outer Membrane Protein NmpC Contribute to Heat Resistance of Escherichia coli AW1.7." Applied and Environmental Microbiology 77(9): 2961-2967.