Curriculum Vitae

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Education:

1995.12 Ph.D in Plant Pathology, Northwestern Agricultural University, Yangling, and Institute of Genetics, Chinese Academy of Sciences, Beijing, China.
1992.07 Master of Agronomy in Plant Pathology, Northwestern Agricultural University, Yangling, China.
1989.07 Bachelor of Agronomy in Plant Protection, Northwestern Agricultural University, Yangling, China.

Research Experience:

2006.04-current: Professor of Plant Pathology, College of Plant Protection, Northwest A & F University, Yangling, China.
2001.05-2006.03: Research Fellow, Plant Cell Biology Group, Research School of Biological Sciences, The Australian National University, Canberra, Australia.
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Current Research funding:

1. China Agriculture Research System (CARS-10, 2011.01-2015.12, 3.5 million RMB, Program Scientist for potato late blight control);
2. National Natural Science Foundation of China (#30971881, 2010.01-2012.12, 340k RMB);
3. National Natural Science Foundation of China (#31125022, 2012.01-2014.12, 2.0 million RMB);
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Publications:

1. Kale, S. D., Gu, B., Capelluto, D. G. S., Dou, D., Feldman, E., Cronin, A., Arredondo, F. D., Fudal, I., Rouxel, T., Lawrence, C. B., **Shan*, W.**, and Tyler*, B. M. 2010. External lipid PI3P mediates entry of eukaryotic pathogen effectors into plant and animal host cells. **Cell** 142：284-295.

2. Zhang, M., Meng, Y., Wang, Q., Liu, D., Quan, J., Hardham, A. R., and **Shan*, W.** 2012. PnPMA1, an atypical plasma membrane H+-ATPase, is required for zoospore development in *Phytophthora parasitica*. **Fungal Biology** 116: 1013-1023.

3. Liu, J., Luo, S. Z., Zhang, Q., Wang, Q. H., Chen, J. F., Guo, A. G., and **Shan, W***. 2012. Tn5 transposon mutagenesis in *Acidovorax citrulli* for identification of genes required for pathogenicity on cucumber. **Plant Pathology** 61：364-374.

4. Zhang, M., Wang, Q., Xu, K., Meng, Y., Quan, J., and **Shan*, W.** 2011. Production of dsRNA sequences in host plant is not sufficient to initiate gene silencing in the colonizing oomycete pathogen *Phytophthora parasitica*. **PLoS ONE** 6 (11)：e28114.

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7. Wang, Q., Han, C., Ferreira, A. O., Yu, X., Ye, W., Tripathy, S., Kale, S. D., Gu, B., Sheng, Y., Wang, X., Zhang, Z., Cheng, B., Dong, S., **Shan, W.**, Zheng, X., Dou, D., Tyler, B. M., Wang, Y. 2011. Transcriptional programming and functional interactions within the *Phytophthora sojae* RXLR effector repertoire. **Plant Cell** 23：2064-2086.

8. Liu, T., Ye, W., Ru, Y., Yang, X., Gu, B., Tao, K., Lu, S. Dong, S., Zheng, X., **Shan, W.**, Wang, Y., and Dou, D. 2011. Two host cytoplasmic effectors are required for pathogenesis of *Phytophthora sojae* by suppression of host defenses. **Plant Physiology** 155 : 490-501.

9. Narayan, R. D., Blackman, L. M., **Shan, W.**, Hardham, A. R. 2010. *Phytophthora nicotianae* transformants lacking dynein light chain 1 produce non-flagellate zoospores. **Fungal Genetics and Biology** 47：663-671.

10. Gan, P. H. P., **Shan, W.**, Blackman, L. M., and Hardham, A. R. 2009. Characterization of cyclophilin-encoding genes in *Phytophthora*. **Molecular Genetics and Genomics** 281：565-578.

11. Hardham, A.R. and **Shan, W.** 2009. Cellular and molecular biology of *Phytophthora*-plant interactions. **The Mycota，Plant Relationships V**, Second Edition, edited by H. B. Deising. Springer-Verlag, Berlin. Pp. 3-27.

12. **Shan, W.**, Liu, J., and Hardham, A. R. 2006. *Phytophthora nicotianae* PnPMA1 encodes an atypical plasma membrane H^+-ATPase that is functional in yeast and developmentally regulated. **Fungal Genetics and Biology** 43：583-592.

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15. **Shan, W.**, Cao, H., Leung, D., and Tyler, B. M. 2004. The *Avr1b* locus of *Phytophthora sojae* encodes an elicitor and a regulator required for avirulence on soybean plants carrying resistance gene *Rps*1b. **Molecular Plant-Microbe Interaction 17**：394-403.

16. Chamnanpunt, J., **Shan, W.**, and Tyler, B. M. 2001. High frequency mitotic gene conversion in genetic hybrids of the oomycete *Phytophthora sojae*. **Proceedings of National Academy of Sciences USA** 98：14530-14535.