

CURRICULUM VITAE

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EDUCATION:

1994	Ph.D.	Plant Pathology	Kansas State University	Manhattan, Kansas
1987	M. S.	Fungal Genetics	Beijing Agricultural University	Beijing, China
1984	B. S.	Microbiology	Beijing Agricultural University	Beijing, China

PROFESSIONAL EXPERIENCE:

2008–present Professor, Dept. of Botany and Plant Pathology, Purdue University
2004–2008 Associate Professor, Dept. of Botany and Plant Pathology, Purdue University
1999–2004 Assistant Professor, Dept. of Botany and Plant Pathology, Purdue University
1997–1999 Senior Research Scientist, Novartis Crop Protection

EDITORIAL BOARDS:

2011 - present: Associate editor of PLoS Pathogens.
2011 - present Member of the Editorial Board for Eukaryotic Cell
2008 -present: Associate editor of the APSnet Education Center and the Plant Health Instructor
2005 – present: Member of the editorial advisory board for Molecular Microbiology

HONORS AND AWARDS

2008–2013: Purdue University Faculty Scholar
2008–2011: Chang Jiang Scholar, Ministry of Education of the People's Republic of China

PUBLICATIONS (Since 2010)

- 1) Kong, L., Yang, J., Li, G., Qi, L., Zhang, Y., Zhao, W., Zhang, Y., **Xu, J.-R.**, and Peng, Y. L. 2012. Systematic characterization of chitin synthase genes in the rice blast fungus *Magnaporthe oryzae*. PLoS Pathogens. 8(2) e1002526. (Xu, J.-R and Peng, Y. L. are co-corresponding authors)
- 2) Wang, C., Zhang, S., Hou, R., Zhao, Z., Zheng, Q., Xu, Q, Zheng, D., Wang, G., Liu, H., Gao, X., Ma, J. W., Kistler, H. C., Kang, Z., and **Xu, J.-R.** 2011. Functional analysis of the kinome of the wheat scab fungus *Fusarium graminearum*. PLoS Pathogens. 7 (12): e1002460.
- 3) Zhang, H., Wang, C., Cheng, Y., Wang, X., Li, F., Han, Q., **Xu, J. -R.**, Chen, X., Huang, L., Wei, G., Kang, Z. S. 2011. Histological and molecular studies of the non-host interaction between wheat and *Uromyces fabae*. Planta. 234: 979-991.
- 4) Guo, J., Dai, X., **Xu, J. -R.**, Wang, Y., Bai, P., Liu, F., Duan, Y., Zhang, H., Huang, L., and Kang, Z. S. 2011. Molecular characterization of a Fus3/Kss1 type MAPK from *Puccinia striiformis* f. sp. *tritici*, PsMAPK1. PLoS ONE. 6(7): e21895.
- 5) Zhang, H., Xue, C., Kong, L., Li, G., and **Xu, J. -R.** 2011. A Pmk1-interacting gene is involved in appressorium differentiation and plant infection in *Magnaporthe oryzae*. Eukaryotic Cell. 10: 1062–1070.
- 6) Li, G., Zhou, X., Kong, L., Wang, Y., Zhang, H., Zhu, H., Mitchell, T., Dean, R. A., and **Xu, J. -R.** 2011. *MoSFL1* Encodes a transcription factor important for virulence and heat sensitivity in *Magnaporthe oryzae*. PLoS One 6(5):e19951. doi:10.1371

- 7) Zhou, X., Liu, W., Wang, C., Xu, Q., Wang, Y., Ding, S., and **Xu, J. -R.** 2011. A MADS box transcription factor Mmc1 is required for male fertility and virulence in *Magnaporthe oryzae*. *Molecular Microbiology*. 80: 33-53.
- 8) Li, Y., Wang, C., Liu, W., Wang, G., Kang, Z., Kistler, H. C., and **Xu, J. -R.** 2011. Systematic Characterization of Type II HDAC Genes in *Fusarium graminearum*. *Molecular Plant-Microbe Interactions*. 24: 487-496.
- 9) Liu, W., Zhou, X., Li, G., Li, L., Kong, L., Wang, C., and **Xu, J. -R.** 2011. Multiple plant surface signals are sensed by different mechanisms in the rice blast fungus. *PLoS Pathogens*. 7: e1001261. doi:10.1371.
- 10) Zhou, X., Li, G., and **Xu, J. -R.** 2011. Efficient approaches for generating GFP fusion and epitope-tagging constructs in filamentous fungi. Pages 199-212. In: *Fungal Genomics: Methods and Protocols 722* (eds. Jin-Rong Xu and Burt Bluhm). Humana Press, Springer Science+Business Media, LLC. Heidelberg, Germany. ISSN 1064-3745.
- 11) Zhang, Y. P., Choi, Y., and **Xu, J. -R.** 2011. The *FvMK1* mitogen-activated protein kinase gene regulates conidiation, pathogenesis, and fumonisin production in *Fusarium verticillioides*. *Fungal Genetics and Biology*. 48: 71-79.
- 12) Wang, Y., Liu, W., Hou, Z., Wang, C., Zhou, X., Jonkers, W., Ding, S., Kistler, H. C., and **Xu, J. -R.** 2011. A novel transcriptional factor important for pathogenesis and ascosporeogenesis in *Fusarium graminearum*. *Molecular Plant-Microbe Interactions*. 24: 118-128.
- 13) Wang, X., Tang, C., Zhang, H., **Xu, J. -R.**, Liu, B., Jie, L., Han, D., Huang, L., and Kang, Z. 2011. TaDAD2, a negative regulator of PCD, is important for the interaction between wheat and the stripe rust fungus. *Molecular Plant-Microbe Interactions*. 24: 79-90.
- 14) Ding, S., Liu, W., Iliuk, A., Ribot, C., Vallet, J., Wang, Y., Tao, A., Lebrun, M., and **Xu, J. -R.** 2010. The *TIG1* HDAC complex regulates infectious growth in the rice blast fungus *Magnaporthe oryzae*. *The Plant Cell*. 22: 2495-2508.
- 15) Ma, L., Rep, M., Borkovich, K. A., Coleman, J. J., Daboussi, M., DiPietro, A., Dufresne, M., Freitag, M., Grabherr, M., Henrissat, B., Kang, S., Park, J., Shim, W., Woloshuk, C. Xie, X., **Xu, J. -R.**, Antoniw, J., Baker, S., Brown, D., Chapman, S., Coulson, R., Coutinho, P. M., Danchin, E., G. J., Diener, A., Gale, L., Goff, S., Kodira, C. D., Hammond-Kosack, K., Hua-Van, A., Hilburn, K., Jonkers, W., Li, L., Koehrsen, M., Miranda-Saavedra, D., O'Leary, S., Park, G., Proctor, R., Regev, A., Ruiz-Roldan, C. M., Sain, D., Sykes, S., Wapinski, I., Schwartz, D. C., Turgeon, G., Yoder, O., Young, S., Zeng, Q., Zhou, S., Galagan, J., Birren, B. W., Cuomo, C. A., and Kistler, H. C. 2010. *Fusarium* comparative genomics reveals pathogenicity related lineage-specific genome expansion. *Nature*. 464: 367-373.
- 16) Liu, W., Xie, S., Zhao, X., Chen, X., Yi, Y., Liu, S., Lu, G., **Xu, J. -R.**, Wang, Z. 2010. A homeodomain transcription factor is essential for asexual reproduction in a filamentous ascomycete. *Molecular Plant-Microbe Interactions*. 23: 366-375.
- 17) Yang, J., Zhao, X., Sun, J., Kang, Z., Ding, S., **Xu, J. -R.**, Peng, Y. 2010. A novel protein Com1 is required for normal conidium morphology and full virulence in *Magnaporthe oryzae*. *Molecular Plant-Microbe Interactions*. 23: 112-123.
- 18) Choi, Y. E. and Xu, J. -R. 2010. The cAMP signaling pathway in *Fusarium verticillioides* is important for conidiation, plant infection, and stress responses but not fumonisin production. *Molecular Plant-Microbe Interactions*. 23: 522-533.
- 19) Leslie, J. F., and **Xu, J. -R.** 2010. *Fusarium* genetics and pathogenicity, pp. 607-621. In: *Cellular and Molecular Biology of Filamentous Fungi* (eds. K. A. Borkovich & D. J. Ebbole). ASM Press, Washington, D.C.
- 20) Zhou, X., Heyer, C., Choi, Y., Mehrabi, R., and **Xu, J. -R.** *CID1* is important for plant infection in *Fusarium verticillioides*. 2010. *Fungal Genetics and Biology*. 47: 143-151.