



## Wenwu Ye

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### Education & Work Experience

Associated professor, 2017-, Nanjing Agricultural University, China

Assistant professor, 2013-2016, Nanjing Agricultural University, China

(Joint Ph. D., 2011-2012, Botany & Plant Pathology, Oregon State University, USA)

Ph. D., 2008-2013, Plant Pathology, Nanjing Agricultural University, China

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### Research Area

Genomics and Bioinformatics of Oomycete-Plant Interactions

### Selected Publications

1. Ye W, et al. Filamentous pathogen effectors interfering with small RNA silencing in plant hosts. *Current Opinion in Microbiology* 2016, 32:1-6.
2. Ye W, et al. Sequencing of the litchi downy blight pathogen reveals it is a *Phytophthora* Species with downy mildew-like characteristics. *Mol Plant Microbe Interact* 2016, 29:573-583.
3. Ye W, et al. Digital gene expression profiling of the *Phytophthora sojae* transcriptome. *Mol Plant Microbe Interact* 2011, 24:1530-1539.
4. Ye W, et al. Phylogenetic and transcriptional analysis of an expanded bZIP transcription factor family in *Phytophthora sojae*. *BMC Genomics* 2013, 14:839.
5. Ye W, et al. Comparative genomic analysis among four representative isolates of *Phytophthora sojae* reveals genes under evolutionary selection. *Frontiers in Microbiology* 2016, 7:1547.
6. Jiang L<sup>#</sup>, Ye W<sup>#</sup> (co-first author), et al. A Puf RNA-binding protein encoding gene *PIM90* regulates the sexual and asexual life stages of the litchi downy blight pathogen *Peronophythora litchii*. *Fungal Genet Biol* 2017, 98:39-45.
7. Ye W, et al. Bioinformatics analysis reveals abundant short alpha-helices as a common structural feature of oomycete RxLR effector proteins. *PLoS One* 2015, 10:e0135240.
8. Ye W, et al. Genome-wide identification and transcriptional analysis of the MAPK genes in *Phytophthora sojae*. *Acta Phytopathol Sin* 2016, 46:338-346.
9. Ye W, et al. Gene expression profiling of a *PsMPK1*-silenced mutant of *Phytophthora sojae*. *J Nanjing Agric Univ* 2016, 3:386-393.
10. Ye W, et al. SeqHunter: a bioinformatics toolbox for local Blast and sequence analysis. *China Journal of Bioinformatics* 2010, 8:364-377.
11. Ma Z, et al. A paralogous decoy protects *Phytophthora sojae* apoplastic effector PsXEG1 from a host inhibitor. *Science* 2017, 355(6326):710-714.
12. Wang Y, et al. Leucine-rich repeat receptor-like gene screen reveals that *Nicotiana* RXEG1 regulates glycoside hydrolase 12 MAMP detection. *Nature Communications* 2018, 9(1):594.
13. Huang J, et al. An oomycete plant pathogen reprograms host pre-mRNA splicing to subvert immunity. *Nature Communications* 2017, 8(1):2051.
14. Jing M, et al. A *Phytophthora sojae* effector suppresses endoplasmic reticulum stress-mediated immunity by stabilizing plant Binding immunoglobulin Proteins. *Nature Communications* 2016, 7:11685.

15. Ma Z, et al. A *Phytophthora sojae* glycoside hydrolase 12 protein is a major virulence factor during soybean infection and is recognized as a PAMP. *Plant Cell* 2015, 27:2057-2072.
16. Wang Q, et al. Transcriptional programming and functional interactions within the *Phytophthora sojae* RXLR effector repertoire. *Plant Cell* 2011, 23:2064-2086.
17. Kong L, et al. A *Phytophthora* effector manipulates host histone acetylation and reprograms defense gene expression to promote infection. *Current Biology* 2017, 17:30214-2.
18. Kong G, et al. The activation of *Phytophthora* effector Avr3b by plant cyclophilin is required for the nudix hydrolase activity of Avr3b. *PLoS Pathogens* 2015, 11:e1005139.
19. Dong Y, et al. Global genome and transcriptome analyses of *Magnaporthe oryzae* epidemic isolate 98-06 uncover novel effectors and pathogenicity-related genes, revealing gene gain and lose dynamics in genome evolution. *PLoS Pathogens* 2015, 11:e1004801.
20. Yang B, et al. Distinct regions of the *Phytophthora* essential effector Avh238 determine its function in cell death activation and plant immunity suppression. *New Phytologist* 2017, 214(1):361-375.
21. Yu X, ... The RxLR effector Avh241 from *Phytophthora sojae* requires plasma membrane localization to induce plant cell death. *New Phytologist* 2012, 196:247-260.

### Open Resources

Personal Portal in ResearchGate: [https://www.researchgate.net/profile/Wenwu\\_Ye](https://www.researchgate.net/profile/Wenwu_Ye)

Bioinformatics software SeqHunter2: <http://sourceforge.net/projects/seqhunter2/files>

*Phytophthora* Transcriptome Database 1.0: <http://phy.njau.edu.cn/ptd>

Oomycete genome database EumicrobeDB: <http://www.eumicrobedb.org>