王 燕

职　　称：副教授，硕士生导师

邮　　箱：yan.wang@njau.edu.cn

联系电话：025-84399621

办公地址：南京农业大学植物保护学院

研究方向：

作物对疫病菌的基础抗性及作用机制

教育经历：

2010 – 2014 荷兰瓦赫宁根大学植物病理学系，农学博士

2007 – 2010 西北农林科技大学植保学院，农学硕士

2003 – 2007 西北农林科技大学农学院， 农学学士

工作经历：

2018 – 今 南京农业大学植物保护学院，副教授，硕导

2015 – 2018 南京农业大学植物保护学院，讲师

执教课程：

植物微生物分子互作（全英文）、普通植物病理学实验课、植保研究技术实验课

承担课题：

1. 2019-2022 江苏省自然基金杰出青年基金，作物对疫病菌基础抗性机制的研究
2. 2019-2022　国家自然科学基金面上项目，类受体蛋白激酶 XRK1 调控作物对疫霉菌基础抗性机制研究
3. 2016-2018　国家自然科学基金青年项目，大豆凝集素受体蛋白激酶抗大豆疫霉菌侵染的机制研究

代表性科研成果：

1. Yan Wang, Brett M. Tyler, and Yuanchao Wang. Defense and counterdefense during plant-pathogenic oomycete infection. Annual Review of Microbiology, 2019, 73:30.1–30.30

2. Yan Wang, Yuanpeng Xu, Yujing Sun, Huibin Wang, Jiaming Qi, Bowen Wan, Wenwu Ye, Yachun Lin, Yuanyuan Shao, Suomeng Dong, Brett M. Tyler, and Yuanchao Wang. Leucine-rich repeat receptor-like gene screen reveals that Nicotiana RXEG1 regulates glycoside hydrolase 12 MAMP detection. Nature Communications, 2018, 9:594

3. Yan Wang and Yuanchao Wang. *Phytophthora sojae* effectors orchestrate warfare with host immunity. Current Opinion in Microbiology, 2018, 46:7-13

4. Yan Wang and Yuanchao Wang. Trick or Treat: Microbial pathogens evolved apoplastic effectors modulating plant susceptibility to infection. Molecular Plant-Microbe Interactions, 2018, 31(1):6-12

5．Yan Wang and Klaas Bouwmeester. L-type lectin receptor kinases; new forces in plant immunity. PLoS Pathogens, 2017, 13(8):e1006433

6．Yan Wang, Rob Weide, Francine Govers, and Klaas Bouwmeester. L-type lectin receptor kinases in *Nicotiana benthamiana* and tomato and their role in *Phytophthora* resistance. Journal of Experimental Botany, 2015, 66 (21):6731-6743

7、Yan Wang, Jan Cordewener, Antoine H.P. America, Weixing Shan, Klaas Bouwmeester, and Francine Govers. Arabidopsis lectin receptor kinases LecRK-IX.1 and LecRK-IX.2 are functional analogs in regulating *Phytophthora* resistance and plant cell death. Molecular Plant-Microbe Interactions, 2015, 9(28):1032-1048

8、Yan Wang, Klaas Bouwmeester, Patrick Beseh, Weixing Shan, and Francine Govers. Phenotypic analyses of Arabidopsis T-DNA insertion lines and expression profiling reveal that multiple L-type lectin receptor kinases are involved in plant immunity. Molecular Plant-Microbe Interactions, 2014, 27(12):1390-1402

9. Yan Wang, Klaas Bouwmeester, Judith van de Mortel, Weixing Shan, and Govers Francine. A novel Arabidopsis-oomycete pathosystem: differential interactions with *Phytophthora capsici* reveal a role for camalexin, indole glucosinolates and salicylic acid in defence, Plant, Cell & Environment, 2013, 36(6):1192-1203

10. Yan Wang, Yuling Meng, Meng Zhang, Xinmeng Tong, Qinhu Wang, Yinyin Sun, Junli Quan, Francine Govers, and Weixing Shan. Infection of Arabidopsis thaliana by *Phytophthora parasitica* and identification of variation in host specificity. Molecular Plant Pathology, 2011, 2(12):187-201

荣誉奖励：

中国植物生理与植物分子生物学学会“优秀女青年奖”，2019

南京农业大学“钟山学者”学术新秀，2019

大北农科技奖 (7/8), 2017

江苏省双创博士，2016