



朱敏

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研究方向：

1. 植物病毒致病分子机制
2. 植物胞内免疫受体蛋白抗病分子机制
3. 植物-病毒-昆虫介体三者互作

教育经历：

2007.09 – 2014.06 中国农业大学农学与生物技术学院，农学博士

2011.01 – 2012.07 The Samuel Roberts Noble Foundation，国家公派联合培养
博士生

2003.09 – 2007.06 华中农业大学植物科学与技术学院，理学学士

工作经历：

2017.12 – 今 南京农业大学植物保护学院，副教授，硕导

2014.08 – 2017.11 南京农业大学植物保护学院，讲师

执教课程:

植保生物技术

植物检疫学

普通植物病理学实验

植物保护通论实验

承担课题:

1. 国家自然科学基金面上项目, 番茄斑萎病毒抑制媒介昆虫诱导的寄主免疫反应分子机制研究 (31972241) , 2020-2023, 主持;
2. 国家自然科学基金青年基金, 番茄斑萎病毒核衣壳蛋白 N 诱导的系统性坏死致病分子机制研究 (31501607) , 2016-2018, 主持;
3. 中央高校基本业务费青年项目, 番茄斑萎病毒核衣壳蛋白 N 诱导的系统性坏死致病分子机制研究 (KJQN201661) , 2016-2018, 主持。

代表性科研成果:

1. **Min Zhu**, Irene Louise van Grinsven, Richard Kormelink, Xiaorong Tao. 2019. Paving the Way to Tospovirus Infection: Multilined Interplays with Plant Innate Immunity. *Annual Review of Phytopathology* 57: 41-62.
2. Jia Li, Haining Huang, **Min Zhu**, Shen Huang, Wenhua Zhang, Savithramma P. Dinesh-Kumar, Xiaorong Tao. 2019. A plant immune receptor adopts a two-step recognition mechanism to enhance viral effector perception. *Molecular Plant* 12: 248-262.
3. **Min Zhu**[#], Lei Jiang[#], Baohui Bai, Wenyang Zhao, Xiaojiao Chen, Jia Li, Yong Liu, Zhengqiang Chen, Boting Wang, Chunli Wang, Qian Wu, Qianhua Shen, Savithramma P. Dinesh-Kumar and Xiaorong Tao. 2017. The intracellular immune

receptor Sw-5b confers broad-spectrum resistance to tospoviruses through recognition of a conserved 21-amino acid viral effector epitope. *The Plant Cell* 29: 2214-2232 (#共同第一作者) .

4. Xiaohui Zhao, **Min Zhu***, Qian Wu, Jing Zhang, Yi Xu and Xiaorong Tao*. Complete genome sequence of a *Lettuce chlorosis virus* isolate from China and genome reassortment/rearrangement analysis. 2017. *Archives of Virology* 163: 751-754 (*通讯作者) .

5. 朱敏, 王泊婷, 黄莹, 李佳, 陶小荣. 2017. 云南天竺葵上发现番茄斑萎病毒. 南京农业大学学报 40: 450-456

6. Xiaojiao Chen[#], **Min Zhu[#]**, Lei Jiang, Wenyang Zhao, Jia Li, Jianyan Wu, Chun Li, Baohui Bai, Lu Gang, Hongyu Chen, Peter Moffett and Xiaorong Tao. 2016. A multilayered regulatory mechanism for the autoinhibition and activation of a plant CC-NB-LRR resistance protein with an extra N-terminal domain. *New Phytologist* 212:161-175 (#共同第一作者).

7. **Min Zhu**, Wen-na Zhang, Jin-yan Tian, Wen-yang Zhao, Zheng-qiang Chen, Li-hua Sun, Fan Xue, Yong Liu, Xin-qiu Tan, Li-min Wang, Feng-quan Liu and Xiaorong Tao. 2016. Development of a lateral-flow assay (LFA) for rapid detection of Soybean mosaic virus. *Journal of Virological Methods* 235: 51-57.

8. Zhike Feng, Fan Xue, Min Xu, Xiaojiao Chen, Wenyang Zhao, Maria J. Garcia-Murria, Ismael Mingarro, Yong Liu, Ying Huang, Lei Jiang, **Min Zhu**, Xiaorong Tao. 2016. The ER-membrane transport system is critical for intercellular trafficking of the NSm movement protein and Tomato spotted wilt tospovirus. *PLoS Pathogen* 12: e1005443.

9. Jia Li, Zhike Feng, Jianyan Wu, Ying Huang, Gang Lu, **Min Zhu**, Bi Wang, Xiang Mao and Xiaorong Tao. Structure and function analysis of nucleocapsid protein of Tomato spotted wilt tospovirus interacting with RNA using homology modeling. 2015. *Journal of Biological Chemistry* 290: 3950-3961.

10. **Min Zhu**, Yuting Chen, Xin-Shun Ding, Steven L. Webb, Tao Zhou, Richard

S. Nelson and Zaifeng Fan. 2014. Maize Elongin C interacts with the viral genome-linked protein, VPg, of Sugarcane mosaic virus and facilitates virus infection. *New Phytologist* 203: 1291-1304.

社会服务工作:

2015 和 2016 年在江苏省黄瓜绿斑驳花叶病毒监控技术交流会现场示范病毒病田间快速检测技术

荣誉奖励:

2019 年受聘为南京农业大学第四批“钟山学术新秀”;

2018 年获“南京农业大学第十二届青年教师授课比赛”优秀奖;

2016 年获“南京农业大学第十二届青年教师授课比赛”优秀奖。