



王明

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研究方向：

围绕大豆、烟草与疫霉互作，利用代谢组学、分子生态学重点开展如下几个方面的的工作：

1. 大豆、烟草对疫霉的分子抗病机理；
2. 植物抗性代谢物的筛选及其抵抗疫霉的防御机理；
3. 疫霉侵扰对大豆、烟草代谢组的重编程及生态效应；
4. 独角金内酯在植物免疫中的作用及应用。

教育经历：

2014.02 – 2018.11：德国马普化学生态所，分子生态学专业，理学博士

2009.09 – 2012.07：兰州大学，细胞生物学专业，硕士

2005.09 – 2009.07：青海大学，生物技术专业，学士

工作经历：

2020.08 – 至今：南京农业大学植物保护学院，教授，博导

2017.06-2019.06：德国马普化学生态所，博士后

执教课程：

《植病研究法实验》

承担课题:

暂无

代表性科研成果:

1.Strigolactone signaling regulates specialized metabolism in tobacco stems and interactions with stem-feeding herbivores

Suhua, Li; Youngsung, Joo; Dechang, Cao; Ran, Li; Gisuk, Lee; Rayko, Halitschke; Gundega, Baldwin; Ian T., Baldwin*; Ming, Wang*

PLoS Biology, 2020, 18(8): e3000830.

2.Priming and filtering of antiherbivore defences among *Nicotiana attenuata* plants connected by mycorrhizal networks

Song, Yuanyuan#; Wang, Ming#*; Zeng, Rensen; Groten, Karin; Baldwin, Ian T*

Plant, Cell and Environment, 2019, 42(11): 2945-2961.

3.Blumenols as shoot markers of root symbiosis with arbuscular mycorrhizal fungi

Wang M#; Schafer M#; Li D; Halitschke R; Dong C; McGale E; Paetz C; Song Y; Li S; Dong J; Heiling S; Groten K; Franken P; Bitterlich M; Harrison M. J; Paszkowski U; Baldwin I. T.*

eLife, 2018, 7.

4.*Nicotiana attenuata*'s capacity to interact with arbuscular mycorrhiza alters its competitive ability and elicits major changes in the leaf transcriptome

Wang M; Wilde J; Baldwin I. T; Groten K.*

Journal of Integrative Plant Biology, 2018, 60(3): 242-261.

5.Catechol, a major component of smoke, influences primary root growth and root hair elongation through reactive oxygen species-mediated redox signaling

Wang M; Schoettner M; Xu S; Paetz C; Wilde J; Baldwin I. T; Groten K.*

New Phytologist, 2017, 213(4): 1755-1770.

荣誉奖励:

2018-2019 国家留学基金委优秀自费留学生二等奖