

夏子豪副教授

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受教育经历

- 2010/09-2016/07, 中国农业大学, 植物保护学院, 硕博连读
- 2014/07-2014/10, 俄亥俄州立大学 (Ohio State University), 分子遗传系 (Department of Molecular Genetics), 访问学者
- 2006/09-2010/07, 河南农业大学, 植物保护学院, 学士

研究工作经历

- 2016/07-2020/11, 沈阳农业大学, 植物保护学院, 讲师

- 2018/12至今，沈阳农业大学植物保护博士后流动站，博士后
- 2020/12至今，沈阳农业大学，植物保护学院，副教授

个人简介

为本科生讲授《普通植物病理学实验》、《园艺植物病理学实验》等课程。主要从事植物病毒学、小RNA在病原体与寄主植物互作中的功能、微量元素在植物抗病中的功能、植物病害诊断学等方面研究。

主持国家自然科学基金青年基金，中国博士后科学基金面上基金，辽宁省科技厅博士启动科研基金，植物病虫害生物学国家重点实验室开放基金，沈阳农业大学引进人才科研基金。发表学术论文20余篇。获得植物保护学会科学技术二等奖1项。指导本科生获得首届全国大学生植物保护专业能力大赛团体一等奖。

一、发表论文和著作（近五年，其中#为并列第一作者，*为通讯作者）：

- (1) Jiao Y, An M, Li X, Yu M, Zhao X, Xia Z*, Wu Y* (2020) Transcriptomic and functional analyses reveal an antiviral role of autophagy during pepper mild mottle virus infection. *BMC Plant Biology*, 20: 495.
- (2) Xia Z#, Wang Z#, Kav N, Ding C, Liang Y* (2020) Characterization of microRNA-like RNAs associated with sclerotial development in *Sclerotinia sclerotiorum*. *Fungal Genetics and Biology*, 144: 103471.
- (3) Li X#, Bi X#, An M, Xia Z*, Wu Y* (2020) iTRAQ-based proteomic analysis of watermelon fruits in response to cucumber green mottle mosaic virus infection. *International Journal of Molecular Sciences*, 21: 2541.
- (4) Jiao Y#, Xu C#, Li J, Gu Y, Xia C, Xie Q, Xie Y, An M, Xia Z*, Wu Y* (2020) Characterization and a RT-RPA assay for rapid detection of chilli veinlet mottle virus (ChiVMV) in tobacco. *Virology Journal*, 17: 33.
- (5) Xia Z*#, Zhao Z#, Gao X, Jiao Z, Wu Y, Zhou T, Fan Z* (2019) Characterization of maize miRNAs in response to synergistic infection of maize chlorotic mottle virus and sugarcane mosaic virus. *International Journal of Molecular Sciences*, 20: 3146.
- (6) An M#, Zhao X#, Zhou T, Wang G, Xia Z*, Wu Y* (2019) A novel biological agent cytosinepeptidomycin inhibited the pathogenesis of tobacco mosaic virus by inducing host resistance and stress response. *Journal of Agricultural and Food Chemistry*, 67: 7738-7747.
- (7) Bi X#, Li X#, Yu H, An M, Li R, Xia Z*, Wu Y* (2019) Development of a multiplex RT-PCR assay for simultaneous detection of Cucumber green mottle mosaic virus and *Acidovorax citrulli* in watermelon. *PeerJ*, 7: e7539.
- (8) Jiao Y#, Jiang J#, An M, Xia Z*, Wu Y* (2019) Recombinase polymerase amplification assay for rapid detection of maize chlorotic mottle virus in maize. *Archives of Virology*, 164: 2581-2584.
- (9) Jiao Y, Jiang J, Wu Y*, Xia Z* (2019) Rapid detection of Cucumber green mottle mosaic virus in watermelon through a recombinase polymerase amplification assay. *Journal of Virological Methods*, 270: 146-149.
- (10) An M, Li R, Gao W, Bi X, Liang Y, Xia Z*, Wu Y* (2019) First report of Peanut mottle virus infecting peanut in northeast China. *Plant Disease*, 103: 378.
- (11) Chen J#, Liu H#, Xia Z, Zhao X, Wu Y*, An M* (2019) Purification and structural analysis of the effective anti-TMV compound ϵ -poly-L-lysine produced by *Streptomyces ahygroscopicus*. *Molecules*, 24: 1156.
- (12) Yu M, Liu H, Zheng H, Yan F, Zhao X, Xia Z, An M*, Wu Y* (2019) Viral sequences required for efficient viral infection differ between two Chinese pepper mild mottle virus isolates. *Virus Research*, 267: 9-15.
- (13) Xia Z*, Zhao Z, Jiao Z, Xu T, Wu Y, Zhou T, Fan Z* (2018) Virus-derived small interfering RNAs affect the accumulations of viral and host transcripts in maize. *Viruses*, 10: 664.
- (14) Xia Z#, Zhao Z#, Li M, Chen L, Jiao Z, Wu Y, Zhou T, Yu W, Fan Z* (2018) Identification of miRNAs and their targets in maize in response to Sugarcane mosaic virus infection. *Plant Physiology and Biochemistry*, 125: 143-152.
- (15) Chen L, Yan Z, Xia Z, Cheng Y, Jiao Z, Sun B, Zhou T, Fan Z* (2017) A violaxanthin de-epoxidase interacts with a viral suppressor of RNA silencing to inhibit virus amplification. *Plant Physiology*, 175: 1774-1794.

(16) Chen H, Cao Y, Li Y, Xia Z, Xie J, Carr J, Wu B, Fan Z, Zhou T* (2017) Identification of differentially regulated maize proteins conditioning Sugarcane mosaic virus systemic infection. *New Phytologist*, 215: 1156-1172.

(17) Li X, An M, Xia Z, Bai X, Wu Y* (2017) Transcriptome analysis of watermelon (*Citrullus lanatus*) fruits in response to Cucumber green mottle mosaic virus (CGMMV) infection. *Scientific Reports*, 7: 16747.

(18) Xia Z, Zhao Z, Chen L, Li M, Zhou T, Deng C, Zhou Q, Fan Z* (2016) Synergistic infection of two viruses MCMV and SCMV increases the accumulation of both MCMV and MCMV-derived siRNAs in maize. *Scientific Reports*, 6: 20520.

二、主持和参加科研课题（近五年）

1. 国家自然科学基金青年基金项目，31801702，miR827调控的磷平衡在玉米抗甘蔗花叶病毒中的作用机制研究，2019.1-2021.12，主持
2. 中国博士后科学基金第65批面上项目，2019M651148，miR398在玉米抗甘蔗花叶病毒中的作用机制研究，2019.05-2020.12，主持
3. 辽宁省科技厅博士启动项目，20170520035，miR159及其靶标在甘蔗花叶病毒侵染玉米过程中的作用研究，2017.9-2019.8，主持
4. 植物病虫害生物学国家重点实验室开放基金，SKLOF202014，SCMV和MCMV复合侵染玉米的分子机制研究，2020.6-2022.5，主持

三、科研获奖（近五年）

1. 首届全国大学生植物保护专业能力大赛团体一等奖（指导教师），2018年，排名第二
2. 新型抗病毒生物农药噬肽毒素的研发与应用，植物保护学会科学技术二等奖，2019年，排名第四

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