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李天亚副教授

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受教育经历

2011/09-2014/07, 沈阳农业大学, 植物保护学院, 博士

2008/09-2011/07, 沈阳农业大学, 植物保护学院, 硕士

2004/09-2008/07, 沈阳农业大学, 植物保护学院, 学士

研究工作经历

2014年-2018年, 沈阳农业大学, 植物保护学院, 讲师

2018年至今, 沈阳农业大学, 植物保护学院, 副教授

个人简介

教学主讲《种子病理学》《植物病理学综合实验》和《植物保护研究进展》等本科生和研究生课程。参编农业部“十二五”规划教材《植物病虫害防治》。指导学生获第十三届和十四届“挑战杯”辽宁省课外学术科技作品竞赛辽宁省挑战杯二等奖及优秀指导教师称号；获沈阳农业大学第四届大学“互联网+创新创业竞赛”三等奖1项；指导学生参与国家级和省级大学生创新创业项目各1项。

近年来围绕小麦秆锈菌种群和毒力动态监测、病害主要流行区域小麦品种抗性抗病基因的分布、小麦与秆锈菌互作机制中氨转运蛋白多样性和功能进行科研工作。主持科研项目：国家自然科学基金项目（31701738）、辽宁省教育厅一般项目（LSNYB201614）、沈阳农业大学引进人才项目（880415014）和黑龙江省小麦品种（系）抗病性鉴定项目。参加完成国审小麦新品“种沈免2137”的培育。在Frontiers in Plant Science、BMC Evolutionary Biology、Plant Disease、European Journal of Plant Pathology、《中国农业科学》、《植物病理学报》等国内外学术期刊发表学术论文40余篇，其中以第一作者或通讯作者发表SCI收录论文14篇。先后获辽宁省自然科学学术成果奖二等奖1项，辽宁林业科学技术奖二等奖1项。

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. Xian Xin Wu[#], Qiu Jun Lin[#], Xin Yu Ni[#], Qian Sun, Rong Zhen Chen, Xiao Feng Xu, Yong Chun Qiu, and Tian Ya Li*. Characterization of wheat monogenic lines with known Sr genes and wheat lines with resistance to the Ug99 race group for resistance to prevalent races of Puccinia graminis f. sp. tritici in China. Plant Dis 2020, Online.
2. Xianxin Wu[#], Qiang Bian[#], Qiujun Lin, Qian Sun, Xinyu Ni, Xiaofeng Xu, Yongchun Qiu, Yuanhu Xuan, Yuanyin Cao, and Tianya Li*. Sensitivity of Puccinia graminis f. sp. tritici isolates from China to triadimefon and cross-resistance against diverse fungicides. Plant Dis 2020, Online.
3. Xian Xin Wu, Xiao Feng Xu, De Xin Ma, Rong Zhen Chen, Tian Ya Li*, and Yuan Yin Cao*. Virulence structure and its genetic diversity analyses of Blumeria graminis f. sp. tritici isolates in China. BMC Evolution Biol 2019, 19:183.
4. Huanhuan Li, Zhenjie Dong, Chao Ma, Xiubin Tian, Zengjun Qi, Nan Wu, Bernd Friebe, Zhiguo Xiang, Qing Xia, Wenxuan Liu*, and Tianya Li*. Physical mapping of stem rust resistance gene Sr52 from Dasypyrum villosum based on phlb-Induced homoeologous recombination. Int J Mol Sci 2019, 20:4887.
5. Yuanyin Cao*, Binbin Si, Guiqing Zhu, Xiaofeng Xu, Weihua Li, Si Chen, Jie Zhao, Tianya Li*. Race and virulence of asexual and sexual populations of Puccinia graminis f. sp. tritici in China from 2009 to 2015. Eur J Plant Pathol, 2018, doi.org/10.1007/s10658-018-1581-x.
6. Tianya Li, Yuchen Ma, Xianxin Wu, Si Chen, Xiaofeng Xu, Hao Wang, Yuanyin Cao*, Yuanhu Xuan*. Race and virulence characterization of Puccinia graminis f. sp. tritici in China. PLoS One. 2018, 13(5): e0197579.
7. Xiaofeng Xu[#], Depeng Yuan[#], Dandan Li, Yue Gao, Ziyuan Wang, Yang Liu, Siting Wang, Yuanhu Xuan, Hui Zhao, Tianya Li*, Yuanhua Wu*. Identification of stem rust resistance genes in wheat cultivars in China using molecular markers. Peer J. 2018, 6: e4882.
8. Ziyuan Wang[#], Yue Gao[#], Jingmiao Liu, Vikranth Kumar, Tianya Li*, Yuanhu Xuan*. Basic helix-loop-helix (bHLH) transcriptional activator regulates ammonium uptake in rice. Plant Gene. 2017, 12: 57-65.
9. Tianya Li[#], Kai Liao[#], Xiaofeng Xu[#], Yue Gao, Ziyuan Wang, Xiaofeng Zhu, Baolei Jia*, Yuanhu Xuan*. Wheat ammonium transporter (AMT) gene family: diversity and possible role in host-pathogen interaction with stem rust. Frontiers in Plant Science. 2017, 8: 1637. doi: 10.3389/fpls.
10. Xiaofeng Xu[#], Dandan Li[#], Yang Liu[#], Yue Gao, Ziyuan Wang, Yuchen Ma, Shuo Yang, Yuanyin Cao, Yuanhu Xuan*, Tianya Li*. Evaluation and identification of stem rust resistance genes Sr2, Sr24, Sr25, Sr26, Sr31 and Sr38 in wheat lines from Gansu Province in China. Peer J. 2017, 5:

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11. Jihua Pei, Haijun Wang, Limin Wu, Shenglong Xia, Changlong Xu, Bo Zheng, Tianya Li* and Yi Jiang*. Biochemical characterization of a catalase from *Vibrio vulnificus*, a pathogen that causes gastroenteritis. *Acta Biochimica Polonica*, 2017, 3: 543-549.
12. Tianya Li, Yuanyin Cao*, Xianxin Wu, Xiaofeng Xu, Wanlin Wang. Seedling resistance to stem rust and molecular marker analysis of resistance genes in wheat cultivars of Yunnan, China. *PLoS One*. 2016, 11(10): e0165640.
13. Tian-ya Li, Xian-xin Wu, Xiao-feng Xu, Wan-lin wang, Yuan-yin Cao*. Postulation of seedling stem rust resistance genes of Yunnan wheat cultivars in China. *Plant Protection Science*, 2016, 4: 242 - 249.
14. Tianya Li, Yuanyin Cao*, Xianxin Wu, Si Chen, Hao Wang, Kunyu Li, Lulan Shen. First report on race and virulence characterization of *Puccinia graminis* sp. *avenae* and resistance of oat cultivars in China. *European Journal of Plant Pathol.* 2015, 142(1): 85-92.
15. XF Zhu[#], DP Yuan[#], C Zhang, TY Li, YH Xuan*. RAVL1, an upstream component of brassinosteroid signaling and biosynthesis, regulates ethylene signaling via activation of EIL1 in rice. *Plant Biotechnol J.* 2018, doi: 10.1111/pbi.12925.
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19. Si Chen, Yuan-yin Cao*, Tian-ya Li, Xian-xin Wu. Simultaneous detection of three wheat pathogenic fungal species by multiplex PCR. *Phytoparasitica*. 2015, 43(4): 1-12.
20. Si Chen, Yuan-yin Cao*, Tian-ya Li, Xianxin Wu. Development of a Specific SCAR Marker to Race 21C3CTH of *Puccinia graminis* sp. *tritici* in China. *International Journal of Agriculture & Biology*. 2015, DOI: 10.17957/IJAB/15.0056.
21. 韩冉[#], 李天亚[#], 宫文萍, 李豪圣, 宋健民, 刘爱峰, 曹新有, 程敦公, 赵振东, 刘成*, 刘建军*. 小麦秆锈病新抗源及抗病基因所在染色体特异分子标记. *中国农业科学*, 2018, 51(7): 1223-1232.
22. 李丹丹, 高越, 徐晓凤, 玄元虎, 曹远银, 李天亚*, 姚远*. 黑龙江省83份小麦品种抗秆锈病基因的分子检测. *植物病理学报*, 2018, doi:10.13926/j.cnki.apps.000142.
23. 李天亚, 刘梦娇, 吴昊娣, 李丹丹, 徐晓凤, 曹远银*. 云南省小麦品种(系)苗期抗秆锈性评价及3个重要抗病基因的分子检测. *植物病理学报*. 2017, 47(1): 128-132.
24. 李天亚*. “互联网+”助力高等教育信息化改革新蓝图-智慧校园. *高等农业教育*. 2016, 5: 25-28

二、主持和参加科研课题(近五年)

1. 国家自然科学基金面上项目, 3101738, 小檗在我国北方燕麦秆锈菌有性生殖及病害发生中的作用研究, 2018.1-2020.12, 主持
2. 辽宁省教育厅项目, LSNYB201614, 小檗在辽宁省燕麦秆锈菌有性生殖及病害发生中的作用研究, 2016.08-2018.08, 主持

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