【石新建】



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教师简介：石新建，男，汉族，1989年1月生，山东济宁人，中共党员，讲师。中国植物学会会员、中国生态学会会员。2022年博士毕业于南开大学植物学专业，获理学博士学位。主要从事植物-微生物互作、植物内生真菌生物防控领域的教学和科研工作。近年来参与国家自然科学基金项目 2 项。已发表科研论文 10 余篇。

一、主讲课程

本科生：植物学

二、教育和工作经历

2023.06 — 至今 安庆师范大学 讲师

2017.09 — 2022.12 南开大学 博士

三、教学科研项目情况

1. 内生真菌对禾草宿主和邻居非宿主植物抗病性的影响机制，国家自然科学基金委员会面上项目, 2023.01-2025.12, 在研，参加。

2. 内生真菌感染对宿主和非宿主禾草菌根依赖性的影响，国家自然科学基金委员会面上项目, 2019.01-2022.12, 结题，参加。

3. 新疆南疆荒漠植物抗逆基因的筛选和评价，兵团科技计划项目，2012.01-2015.12, 结题，参加。

四、发表论文情况

1. **Shi X**, Qin T, Chen J et al. Infection by endophytic *Epichloë sibirica* was associated with activation of defense hormone signal transduction pathways and enhanced pathogen resistance in the grass *Achnatherum sibiricum*. Phytopathology. 2022, 112:2310-2320.

2. **Shi X**, Qin T, Qu Y et al. Comparative omics analysis of endophyte-infected and endophyte-free *Achnatherum sibiricum* in response to pathogenic fungi. Biological Control. 2022, 175: 105040.

3. **Shi X**, Qin T, Liu H, Wu M et al. Endophytic fungi activated similar defense strategies of *Achnatherum sibiricum* host to different trophic types of pathogens. Frontiers in Microbiology. 2020, 11: 1607.

4. **石新建**, 张靖歆, 秦天姿等. 内生真菌感染对宿主羽茅及邻生植物抗病性的影响. 植物生态学报. 2021, 45(8): 860-869.

5. **石新建**, 王彦芹, 李志军. 盐旱胁迫对花花柴种子萌发与幼苗生理生化特性的影响. 草业科学. 2017, 34(9): 1855-1862.

6. Zhang, Junzhen, Yu, Xinhe, Qu, Yaobing, **Shi, Xinjian** et al. The decreasing trend of the competitive advantage of endophyte-infected *Achnatherum sibiricum* over endophyte-free plants under high nitrogen conditions was reversed by pathogenic fungi inoculation. Plant and Soil. 2023, 493(1): 427-439.

7. Hao, Guang, Yang, Nan, Liu, Yulin, **Shi Xinjian** et al. The relative importance of drought stress and neighbor richness on plant–plant interactions shifts over a short time. Science of the Total Environment. 2023, 892:164534.

8. Qu, Yaobing, Qin, Tianzi, **Shi, Xinjian** et al. The effects of *Epichloë* endophytes on the growth and competitiveness of *Achnatherum sibiricum* are mediated by soil microbe diversity. Journal of Plant Ecology. 2023, 16(1): rtac028.

9. Zhang, Junzhen, Deng, Yongkang, Ge, Xiaoyu, **Shi, Xinjian** et al. The beneficial effect of *Epichloë* endophytes on the growth of host grasses was affected by arbuscular mycorrhizal fungi, pathogenic fungi and nitrogen addition. Environmental and Experimental Botany. 2023, 201:104979.

10. Hao, Guang, Yang, Nan, Dong, Ke, Xu, Yujuan, Ding, Xinfeng, **Shi, Xinjian** et al. Land Degradation and Development. 2021, 32(10):3142-3153.

11. Liu, Hui, Chen, Jing, Qin, Tianzi, **Shi, Xinjian** et al. Removal of soil microbes alters interspecific competitiveness of *Epichloë* endophyte-infected over endophyte-free *Leymus chinensis*. Microorganisms. 2020, 8(2): 219.