

Prof. Linhong Jin

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Position: Deputy Director of the Belt and Road Joint Laboratory,
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Research field: Agriculture pest control, biological control (with natural enemy) of pest in tea plantation and other crops



Profile

Linhong Jin, professor of Guizhou University, scientist of Guizhou modern agricultural industry technology system, mainly engaged in agriculture pest control, biological control (with natural enemy) of pest in tea plantation and other crops. He has established pest control technology demonstrations in more than 30 counties in Guizhou province and making considerable contributions to the green development of Guizhou's tea industry. He has published more than 100 scientific works and several invention patents. His research has been granted by numerous national and provincial projects. He has been awarded various awards, including "Guizhou Province Outstanding Individual in the Tea Industry (2020)", "Guizhou Province Advanced Individual in Poverty Alleviation (2021), National Advanced Collective for Poverty Alleviation, Team Leader (2021)" and "The Most Distinguished technologist(2022)", etc.

Positions Held

- 1989.7-2002.1 Lab technician, Guizhou University, China
- 2002.2-2007.12 Senior lab technician, Guizhou University, China
- 2007.12-2011.12 Associate professor, Guizhou University, China
- 2012-present Professor, Guizhou University, China

Publications

- [1] Youhua Liu, Changkun Li, Maoyu Nie, Fali Wang, Xiaoli Ren, Linhong Jin and Xia Zhou* (2024) Sulfonate derivatives bearing an amide unit: design, synthesis and biological activity. BMC Chemistry 18:46
- [2] You-hua Liu, Fa-li Wang, Xiaoli Ren, Changkun Li, Linhong Jin, and Xia Zhou* (2024) Synthesis, structural characterization, and biological activities of 1,3,4- thiadiazole derivatives containing sulfonyl piperazine structures. Chemistry & Biodiversity, e202400408.
- [3] Bing Gong, Jie Wang, Séverin Hatt, Nicolas Desneux, Su Wang, Linhong Jin* (2024) Intercropping with aromatic plants enhances natural enemy communities facilitating pest suppression in tea plantations. Arthropod-Plant Interactions 18:753-761.
- [4] Xingxin Liu, Zhongchen Rao, Richou Han, Linhong Jin* and Li Cao (2024) Genes involved in DMSO-mediated yield increase of entomopathogenic nematodes. Scientific Reports 14:31670.
- [5] Weizhi Xun, Bing Gong, Xingxin Liu, Xiuju Yang, Xia Zhou* and Linhong Jin *(2023) antifungal mechanism of phenazine-1-carboxylic acid against *Pestalotiopsis kenyana*. International Journal of Molecular Sciences 24, 11274.
- [6] Xiuju Yang, Kunqian Cao, Xiaoli Ren, Guangyun Cao, Weizhi Xun, Jiayong Qin, Xia Zhou and Linhong Jin*(2023) Field control effect and initial mechanism: a study of isobavachalcone against blister blight disease. International Journal of Molecular Sciences 24, 10225.
- [7] Kunqian Cao, Rongmeng Lan, Xiuju Yang, Bing Gong, Jingjing Zhang, Xia Zhou and Linhong Jin*(2023), Two-sex life table analysis of the predator *arma chinensis*(hemiptera: pentatomidae) and the prediction of its ability to suppress populations of *scopula subpunctaria* (lepidoptera: geometridae). Agriculture 13, 1254.
- [8] Yanni Tan, Bing Gong, Qiuqiu Zhang, Changkun Li, Junyi Weng, Xia Zhou and Linhong Jin*(2023) Diversity of endosymbionts in *camellia* spiny whitefly, *Aleurocanthus camelliae* (Hemiptera: Aleyrodidae), estimated by 16S rRNA analysis and their biological implications. Frontiers in Microbiology 14:1124386.

- [9] Changkun Li, Youhua Liu, Xiaoli Ren, Yanni Tan, Linhong Jin* (2023) Design, synthesis and bioactivity of novel pyrimidine sulfonate esters containing thioether moiety. *International Journal of Molecular Sciences* 24(5), 4691.
- [10] Weizhi Xun, Changwang Wu, Xian Wu, Qingrong Bai, Yaru Sun, Jiayan Shi, Dandan Xie and Linhong Jin* (2023). First report of bayberry leaf blight caused by *Pestalotiopsis kenyana* in Zhejiang province, China. *Plant Disease* 107(9), 2860.
- [11] Weizhi Xun, Bing Gong, Xingxin Liu, Xiuju Yang, Xia Zhou* and Linhong Jin* (2023) Antifungal mechanism of phenazine-1-carboxylic acid against *Pestalotiopsis kenyana*. *International Journal of Molecular Sciences*, 24, 11274.
- [12] Dezhong Ji, Lina Ou, Xiaoli Ren, Xiuju Yang, Yanni Tan, Xia Zhou* and Linhong Jin* (2022) Transcriptomic and metabolomic analysis reveal possible molecular mechanisms regulating tea plant growth elicited by chitosan oligosaccharide. *International Journal of Molecular Sciences* 23, 5469(1-15).
- [13] Rongmeng Lan, Xiaoli Ren, Kunqian Cao, Xia Zhou and Linhong Jin* (2022) Demographic evaluation of the control potential of *Orius minutus* (Hemiptera: Anthocoridae) preying on *Dendrothrips minowai* Priesner (Thysanoptera: Thripidae) at different temperatures. *Insects*, 13(12), 1158.
- [14] Qiuqiu, Zhang, Rongmeng Lan, Dezhong Ji, Yanni Tan, Xia Zhou, Xiaofeng Tan, Qiong Wu, Linhong Jin* (2022). The detection of wolbachia in tea green leafhopper (*Empoasca onukii Matsuda*) and its influence on the host. *Agriculture* 12, 36.
- [15] Lina Ou, Qiuqiu Zhang, Dezhong Ji, Yingying Li, Xia Zhou* and Linhong Jin* (2022) Physiological, transcriptomic investigation on the tea plant growth and yield motivation by chitosan oligosaccharides. *Horticulturae* 8, 68(1-13).
- [16] LianCheng Xie, JunCe Tian, YanHui Lu, HongXing Xu, LianSheng Zang, ZhongXian Lu*, Lin-Hong Jin* (2021). Selection of reference genes for RT-qPCR analysis in *Trichogramma chilonis* (Hymenoptera: Trichogrammatidae). *Journal of Asia-Pacific Entomology*. *Journal of Asia-Pacific Entomology* 24, 679-687.
- [17] Qiuping Zhang, Ruifang Zhang, Qiuqiu Zhang, Dezhong Ji, Xia Zhou and Linhong Jin* (2021) Functional response and control potential of *Orius sauteri* (Hemiptera: Anthocoridae) on tea thrips (*Dendrothrips minowai* Priesner) *Insects* 12, 1132.
- [18] Tao Liu, Xiaoli Ren, Guangyun Cao, Xia Zhou* and Linhong Jin* (2021). Transcriptome analysis on the mechanism of ethylin inhibiting *Pseudomonas syringae* pv. *actinidiae* on Kiwifruit. *Microorganisms* 9(4): 724.
- [19] Ruifang Zhang, Dezhong Ji, Qiuqiu Zhang and Linhong Jin* (2021). Evaluation of eleven plant species as potential banker plants to support predatory *Orius sauteri* in tea plant systems. *Insects* 12, 162.
- [20] Yingying Li, Qiuqiu Zhang, Lina Ou, Dezhong Ji, Tao Liu, Rongmeng Lan, Xiangyang Li and Linhong Jin* (2020). Response to the cold stress signaling of the tea plant (*Camellia sinensis*) elicited by chitosan oligosaccharide. *Agronomy* 10, 915.
- [21] Lei Wang, Xia Zhou*, Hui Lu, Xianfu Mu and Linhong Jin* (2020). Synthesis and antibacterial evaluation of novel 1,3,4-oxadiazole derivatives containing sulfonate/carboxylate moiety. *Molecules* 25:1488(1-14).
- [22] Hui Lu, Xia Zhou*, Lei Wang and Linhong Jin* (2020). Synthesis and antibacterial evaluation of n-phenylacetamide derivatives containing 4-arylthiazole moieties. *Molecules* 25:1772(1-14).

Projects

- Science and Technology Project of Guizhou Province: Integration and demonstration of green pest control technology in tea plantations in Guizhou ([2015] 5020), 2015.12-2019.12
- Regional Science Foundation of National Natural Science Foundation of China: Development and molecular targets of new pesticides containing sulfonyl substituted thiocarbamide based on rice bacterial disease regulation (21967006), 2020.01-2023.12
- Guizhou Provincial Science and Technology Plan Project: Integrated transformation of green prevention and control technologies for characteristic mountain crops in Guizhou (QKHCG [2022] Key 006), 2022.12.01-2024.12.31
- National Key Research and Development Plan Project: Construction and Joint Research of the "Belt and Road" Joint Laboratory for Green Prevention and Control Technologies in Tea between China and Sri Lanka (2024YFE0214300), 2025.01 -2026.12

Patents

1. Formulation and culture method of liquid medium for entomopathogenic nematodes, 2024.11.12, 2024116065705
2. Preparation and method for improving the control effect of insect pathogenic nematodes on thrips. 2024.12.20, 2024118927716
3. Preparation method and application of thiadiazolamide compounds containing sulfonate structure,. 2023.09.19, 2023112054957
4. Preparation method and application of pyrimidine thiole compound containing sulfonate structure. 2022.09.07, ZL 2022 1 1087365.

Academic honors & awards

- The third prize of Guizhou Province Science and Technology Progress Award. Time: 2003

- First prize of Science and Technology Progress in Guizhou Province. Time: 2004
- The second prize of the Ministry of Education Science and Technology Progress Award. Time: 2004
- The second prize of the Ministry of Education Science and Technology Progress Award. Time: 2006
- The first prize of the Ministry of Education Science and Technology Progress Award. Time: 2009
- The first prize of Guizhou Province Education Achievement Award. Time: 2013
- Second Prize of National Science and Technology Progress Award. Time: 2014
- First prize of Science and Technology Progress in Guizhou Province. Time: 2019
- Second Prize of National Science and Technology Progress Award. Time: 2019
- Advanced Individual in Guizhou Tea Industry, 2020.
- Top 10 Tea Science and Technology Cultural Contributors in Guizhou, 2021
- Guizhou Province Advanced Individual in Poverty Alleviation. Time: 2021
- National Advanced Collective for Poverty Alleviation, Team Leader. Time: 2021
- First prize of Science and Technology Progress in Guizhou Province. Time: 2022
- First prize of Science and Technology Progress in Guizhou Province. Time: 2023
- The title of "Golden Teacher" in Guizhou Province. Time: 2023