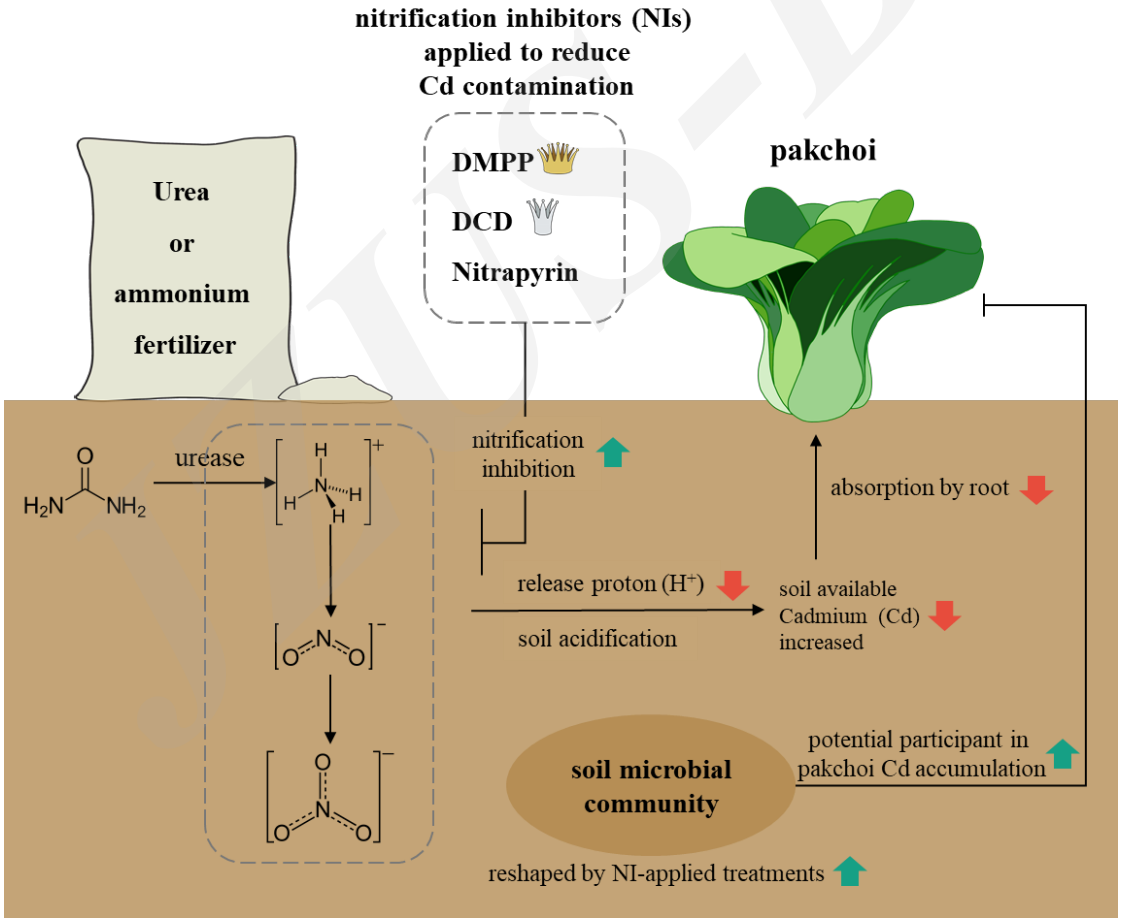
Cite this as: Wenxin DU, Qingyang ZHU, Xiangting JING, Weijie HU, Yao ZHUANG, Yijie JIANG, Chongwei JIN. Comparison of nitrification inhibitors for mitigating cadmium accumulation in pakchoi and their associated microbial mechanisms[J]. Journal of Zhejiang University Science B, 2024, 25(9): 773-788.
http://doi.org/10.1631/jzus.B2300449

Comparison of nitrification inhibitors for mitigating cadmium accumulation in pakchoi and their associated microbial mechanisms

Key words: Cadmium, Nitrification inhibitor, Soil microbial structure, Safe crop production

Research Summary

This research mainly compared the effectiveness different nitrification inhibitors in decrease cadmium (Cd) accumulation in pakchoi and their impacts on soil microbial communities.



Innovation points

- **Selection** of DMPP which is the most effective nitrification inhibitors for mitigating Cd accumulation in pakchoi
- **Discovery** of suppression of soil acidification by nitrification inhibitor
- **Discovery** of reshaping of soil microbial structure by nitrification inhibitor
- **Elucidation** of decreased available Cd and altered microbial structure by nitrification inhibitors both acting to mitigating pakchoi Cd contamination

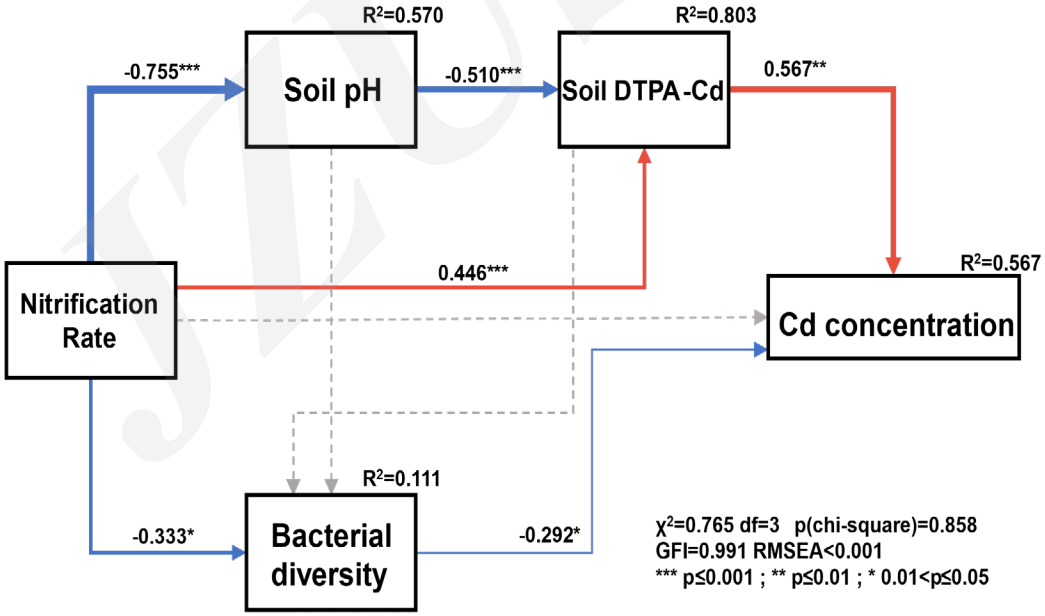


Figure 9