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Research Interests

- **Basic research and application on microbial resources**
- **Supervision and management for bio-fertilizer industry**
- **Standardization for bio-fertilizers**
- **Symbiotic nitrogen fixation of rhizobia-legume**

Publication

Influence of 37 Years of Nitrogen and Phosphorus Fertilization on Composition of Rhizosphere Arbuscular Mycorrhizal Fungi Communities in Black Soil of Northeast China,Frontiers in Microbiology,2020,DOI:10.3389/fmicb.2020.539669

Effects of applying inorganic fertilizer and organic manure for 35 years on the structure and diversity of ammonia - oxidizing archaea communities in a Chinese Mollisol field, MicrobiologyOpen , 2019,DOI:10.1002/mbo3.942

Long-term N fertilization altered 13C-labeled fungal community composition but not diversity in wheat rhizosphere of Chinese black soil, Soil Biology and Biochemistry, 2019, DOI:10.1016/j.soilbio.2019.04.009

Impact of 36 years of nitrogen fertilization on microbial community composition and soil

carbon cycling-related enzyme activities in rhizospheres and bulk soils in northeast China, Applied Soil Ecology, 2019, DOI:10.1016/j.apsoil.2018.12.019

Responses of fungal community composition to long-term chemical and organic fertilization strategies in Chinese Mollisols,MicrobiologyOpen, 2018, DOI:10.1002/mbo3.597

Effect of long-term fertilization strategies on bacterial community composition in a 35-year field experiment of Chinese Mollisols,AMB Express, 2018, DOI:10.1186/s13568-018-0549-8

Chronic fertilization of 37 years alters the phylogenetic structure of soil arbuscular mycorrhizal fungi in Chinese Mollisols,AMB Express,2018, DOI:10.1186/s13568-018-0587-2

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Transcriptional analysis of genes involved in competitive nodulation in Bradyrhizobium diazoefficiens at the presence of soybean root exudates, Scientific Reports, 2017, DOI:10.1038/s41598-017-11372-0

Influence of 34-years of fertilization on bacterial communities in an intensively cultivated black soil in northeast China,Soil Biology and Biochemistry,2015, DOI:10.1016/j.soilbio.2015.07.005

Experiment instructor for soil microbial ecology,Beijing/China Agricultural Science and Technology Press,2020, ISBN:9787511648945

Q & A Center for the production technology and application of bio-fertilizers,Beijing/China Agriculture Press, 2019, ISBN:9787109255074

Agricultural Microbiology Research and Industrialization Progress,Beijing/Science Press,2011, ISBN:9787030306708