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Research Interests

- **Basic research and application on microbial resources**
- **Standardization for microbial fertilizers**
- **Symbiotic nitrogen fixation of rhizobia-legume**
- **Risk assessment for microbial fertilizer**

Publication

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

Isolation and Identification of PGPR Strain and its Effect on Soybean Growth and Soil Bacterial Community Composition, International journal of agriculture & biology, 2018, DOI:10.17957/IJAB/15.0627

Complete genome sequence of Paenibacillus mucilaginosus 3016, a bacterium functional as microbial fertilizer,Journal of bacteriology,2012, DOI:10.1128/JB.00323-12

Complete Genome Sequence of Paenibacillus polymyxa SC2, a Strain of Plant Growth-Promoting Rhizobacterium with Broad-Spectrum Antimicrobial Activity,Journal of bacteriology,2011, DOI:10.1128/JB.01234-10

Experiment instructor for soil microbial ecology,Beijing/China Agricultural Science and Technology Press,2020, ISBN:978-7-5116-4894-5

Q & A Center for the production technology and application of bio-fertilizers,Beijing/China Agriculture Press,2019, ISBN:978-7-109-25507-4