Special Issue

Contamination in a Paddy Field System with Toxic Elements

Message from the Guest Editor

The pollution of the rice field system with heavy metals has affected the safety of rice and human health. Bioremediation is gaining widespread popularity due to its advantages of low treatment cost, low environmental impact and high efficiency. Rhizosphere microorganisms are closely connected with plant roots, and play an important role in changing soil heavy metal forms, reducing the heavy metal phytotoxicity of soil, increasing the biomass of host plants, and enhancing the resistance of host plants to heavy metals. Aim and scope:

- Bioremediation of heavy metal pollution;
- Detoxification mechanism of rhizosphere microorganisms;
- Rhizosphere microbial ecology under heavy metals contamination;
- Screening and application of rhizosphere microorganisms;
- Role of rhizosphere microorganisms in resistance to heavy metals;
- Metabolic and ecological effects of rhizosphere microorganisms;
- Microbial combined plant remediation of heavy metal pollution;
- Mechanisms of microbial–plant interaction;
- Soil health and plant safety in paddy field system.

Guest Editor

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