Special Issue

Microbial Remediation of Soils: Bioaugmentation and Biostimulation towards Improved Soil and Human Health

Message from the Guest Editor

Within the arena of metals in our environment, the classical conundrums of feast and famine face scientists and consumers alike, and the soil microbiome ultimately brings all these issues to bear. The biogeochemical processes microorganisms undergo to transform and eliminate toxic and trace metals in soil can be harnessed to address these eminent global challenges. This fundamental metal biogeochemistry can be used toward the greater good, through either natural or synthetic microbial communities, to the ultimate improvement of soil health and, consequently, human health as well.

In this Special Issue, we invite research articles and reviews to move beyond simple surveys of the soil microbiome and seek a better understanding of the processes and mechanisms that underlie the movement of trace metals, micronutrients, and toxic substances controlling the microbial capacity to remediate. Through bioaugmentation and biostimulation in soils, we direct and manage the microbial remediation of metals in such a way as to limit human and environmental exposure to toxins.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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