



## Antibiotic Resistance Genes in the Environment: Toward Management Options for Reducing the Dissemination

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### Message from the Guest Editors

Dear Colleagues,

Antibiotic resistance, encoded by antibiotic resistance genes (ARGs), is the ability of some bacteria survive antibiotic treatment. Soil and water environments becoming reservoirs of antibiotic resistance caused by clinically and agriculturally overuse of antibiotics. In particular, wastewater and animal manure have been recognized as the reservoirs for the dissemination of ARGs in environments. The discharge of treated wastewater from wastewater treatment plants and the wastewater irrigation can introduce ARGs to receiving environments. Land application of manure and sewage sludge in agricultural practice can introduce ARGs to the receiving soil and natural water body. Therefore, management practices in a manner that can potentially stem the spread of ARGs in the environment were needed.

The scope of this Special Issue is to collect original articles to update knowledge on fate of ARGs in environments and to seek potential management practices for reducing the dissemination of ARGs.

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