



The Distribution of Antibiotic Resistance in Terrestrial Ecosystems

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Message from the Guest Editors

Terrestrial ecosystems comprise various sources of antibiotic resistance (ABR), which have gained public attention due to an increasing prevalence of multidrug-resistant pathogens globally, threatening our ability to treat bacterial infections in human therapy. A deeper knowledge of these sources, including the abundance, diversity, mobility, and hosts of antibiotic resistance genes (ARGs) as well as the identification of factors determining resistome properties, is fundamental for the development of strategies to reduce the spread of ABR in the environment.

For this Special Issue, we invite authors to submit manuscripts focusing on selected ARGs or comprehensive resistomes present in terrestrial ecosystems. In this context, mobile genetic elements fostering the dissemination of ABR, as well as influential abiotic and biotic factors such as soil type, climate, agricultural management, and plants or animals will be considered. Furthermore, pristine terrestrial ecosystems as well as those that are hardly or intensely affected by anthropogenic activities will be covered, and studies comparing these environments are welcome.





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Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciplines are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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