Special Issue

Emerging Contaminants: Antibiotic Residues and Their Environmental Impact

Message from the Guest Editors

The extensive use and abuse of various antibiotics induce the persistence of their residues as emerging contaminants, as well as development of resistant bacteria and genes in the environment, which has conferred enormous and complicated impacts on human health and environmental safety. The category, concentration, source, migration, transformation, and degradation of antibiotics in the environment have raised growing concerns. Antibiotic resistance genes and resistant bacteria are now considered new environmental pollutants. Various technologies are being developed to prevent and control antimicrobial resistance, but gaps remain in understanding antibiotic residues' environmental behaviors and impacts, as well as methodologies to track their migration, transformation, and degradation. This Special Issue welcomes innovative research on antibiotic residues' occurrence, diversity, migration, transformation, and degradation, as well as strategies for assessing, preventing, and controlling their environmental and health impacts, including new theoretical insights and technologies.

Guest Editors

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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 disciples 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.

Editor-in-Chief

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