Special Issue

Antibiotic Resistance in Wastewater and Its Treatment

Message from the Guest Editor

The phenomenon of antibiotic resistance is still an emerging problem worldwide. It makes the treatment of common diseases difficult. Wastewater contains a mixture of different pharmaceuticals and bacteria, and so it represents an important hotspot for the development and dissemination of antibiotic-resistant bacteria and antibiotic resistance genes. These bacteria together with their genes can spread further into the environment and food chain, endangering humans and animals. At this point, it is important to focus on innovative technologies which help us to eliminate the problem of antibiotic resistance in wastewater. Therefore, the main subject of this Issue includes the monitoring and characterization of antibiotic resistance in wastewater and its recipients, as well as the description of novel technologies for wastewater treatment with a view to eliminating the problem of antibiotic resistance. This Issue seeks submissions that further understanding of antimicrobial resistance in wastewater and which design novel strategies to solve this problem. Keywords: antibiotics; wastewater; microorganisms; wastewater treatment plant; water pollution

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About the Journal

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.

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