

Special Issue

Antibiotics and Antibiotic Resistance Genes in Environmental Waters and Agriculture

Message from the Guest Editors

In recent decades, the emergence of antibiotic resistance (AR) has led to global concern around a worrying trend regarding the decrease of the effectiveness of the antibiotics against some multidrug-resistant pathogens. Although AR is an ancient and naturally occurring phenomenon, the intensification of anthropogenic activities has increased the prevalence of antibiotic-resistant bacteria. Water represents the most important link between different environmental compartments. Up to 90% of pharmaceuticals and antibiotics consumed by humans end up in feces and urine, which finally go to wastewater treatment plants (WWTPs). In addition, pharmaceuticals and antibiotics are also widely used in veterinary medicine. In this case, these compounds end up to livestock wastes, which are commonly applied in the fields as biofertilizers. Therefore, in an effort to better understand the rising levels of AR, the aim of this Special Issue is to gather information about the role of aquatic and agricultural ecosystems in the dissemination of antibiotics and ARGs. For further reading, please visit the [Special Issue website](#)

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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