



Antibiotics and Antibiotic Resistance Genes in Environmental Waters and Agriculture

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Message from the Guest Editors

Dear Colleagues,

In recent decades, the emergence of antibiotic resistance (AR) has led to global concern around a worrying trend regarding the decrease of the effectivity 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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Message from the Editor-in-Chief

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