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Antimicrobial Resistance in the Urban Water Cycle and Natural Aquatic Environments

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Deadline for manuscript
submissions:

closed (28 February 2022)

Message from the Guest Editors

Dear Colleagues,

Antimicrobial resistance (AMR) continues to be an important global health challenge. Rapid urbanization, increased population density, and human/animal misuse of antibiotics contribute to the AMR burden in aquatic compartments that receives discharge from these activities and other sources.

To protect environmental health and reduce AMR burden in water resources, a holistic approach to surveillance, modeling dissemination patterns, and developing risk assessment frameworks offer solutions to manage the spread of AMR in aquatic environments.

This Special Issue aims to feature novel detection methods, comprehensive and current trends in AMR surveillance data (e.g., antimicrobial agents/antibiotic resistant bacteria/antibiotic resistance profiles) in the urban water cycle and natural environments, the fate and transport (sources and sinks) of AMR, and risk models and assessments that will help in water management.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/Antimicrobial_Aquatic



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Special Issue



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Message from the Editor-in-Chief

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.

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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