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# Risk Assessment of Water Resources and Food: Microbial Contaminants, Antibiotics and Antibiotic Resistance Genes

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Deadline for manuscript submissions:
**closed (15 May 2022)**

## Message from the Guest Editors

Dear Colleagues,

Antibiotic resistance is a global health threat. To combat the problem, international organizations have developed risk assessment protocols and action plans for combating antibiotic-resistant bacteria that emphasize monitoring antimicrobial susceptibilities of selected bacteria, modeling patterns/impacts of antibiotic use in food/food-producing animals, and developing mitigation procedures to reduce the dissemination of antimicrobial resistance (AMR) to production environments. The dissemination of antibiotic resistance can be attributed to the transfer of bacterial mobile antibiotic resistance gene (ARGs) across different environmental niches. Therefore, we plan to present papers that identify the transfer network of the mobile resistome and the selection forces driving acquisition of AMR in many ecosystems. Papers dealing with the root sources and causes of AMR and the role of environmental processes in AMR dissemination will be of priority. AMR is a complex problem that requires a holistic approach that simultaneously addresses the impacts of AMR on humans, animals, and the environment. Review papers and others dealing with AMR holistically will be welcome.

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## Editor-in-Chief

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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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