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Antimicrobial Resistance in Environmental Waters

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Message from the Guest Editors

In recent years, the emergence of antimicrobial resistance has drawn heightened global concern because of the severe ramifications on the treatment of microbial infections. Bacteria develop antibiotic resistance in the presence of residual levels of antibiotics and these antibiotic resistant bacteria in turn, are able to spread their resistance to other bacteria through mechanisms such as horizontal gene transfer, mediated by mobile genetic elements (e.g. plasmids, integrons) or co-selecting agents such as biocides and toxic metals.

The aims of this Special Issue (**http://www.mdpi.com/journal/water/special_issues/Antimi Resistance-Environmental-Waters**) are to present current trends in antimicrobial/antibiotic resistance in diverse environmental waters, ranging from the detection and occurrence of antimicrobial factors (e.g. antimicrobials, antibiotics, ARB, ARG) to their fate and transformations in different environments such as surface waters, groundwaters, biofilms and water and wastewater treatment processes.

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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.

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