Special Issue

Health-Related Water Microbiology and Wastewater-Based Epidemiology

Message from the Guest Editors

Wastewater-based epidemiology (WBE) has been attracting much attention as an effective tool for tracing the circulation of pathogens in a community. The WBE is based on the detection of pathogens in wastewater, which provides information on population-level infection prevalence and epidemiology in a rapid and cost-effective manner. Compared to traditional epidemiological methods, the WBE approach enables the epidemiology of infectious diseases to be monitored, even if they are not evident via clinical surveillance. The applicability of WBE to the ongoing pandemic of coronavirus disease 2019 (COVID-19) has been proposed and proven, and tremendous efforts are being made to enable the practical implemantation of WBE to help in the fight against COVID-19 in many countries. This Special Issue on "Health-Related Water Microbiology and Wastewater-Based Epidemiology" features high-quality original research and comprehensive reviews from leading scientists in the field of health-related water microbiology. The relevant pathogens to be discussed in this Issue include, but are not limited to: SARS-CoV-2, norovirus, poliovirus, and antimicrobial-resistant bacteria.

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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.

Editor-in-Chief

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