Special Issue

Wastewater-Based Epidemiology Assessment

Message from the Guest Editors

Wastewater-based epidemiology (WBE), is a complementary method to traditional monitoring approaches for monitoring chemical use and exposure in a population. The approach operates based on the fact that after consumption/exposure, biomarkers—drugs and their metabolites—excreted into toilets and flushed into urban sewer networks can be measured in raw wastewater samples. By sampling at the influent of wastewater treatment plants (WWTPs) and analyzing suitable biomarker concentrations, the consumption of the substances can be back-calculated. WBE techniques have recently begun to provide insights into diseases (COVID-19, gout, diabetes, and cancer) and lifestyles (food, nutrition).

This Special Issue welcomes research papers on various aspects of WBE, including applications of WBE in chemical use/exposure, reviews of WBE methodology, uncertainty analysis, etc. We encourage the submission of interdisciplinary work and collaborative research on the identification of new biomarkers for WBE and thetriangulating WBE data with other data sources. We are especially interested in potential submissions that focus on COVID-19 and other diseases.

Guest Editors

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Deadline for manuscript submissions

closed (20 January 2025)

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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