Special Issue

Wastewater-Based Epidemiology for Infectious Disease Surveillance

Message from the Guest Editors

Wastewater-based epidemiology (WBE), or environmental surveillance, has been used to better understand disease transmission. Much of the current research is dedicated to studying the potential for the wastewater surveillance of SARS-CoV-2 RNA to serve as an early diagnostic tool to identify new outbreaks and/or changes in the transmission of COVID-19 in a community. However, wastewater surveillance has also been used in the past to provide early warnings of infectious disease outbreaks. In the context of the ongoing COVID-19 pandemic, critical questions remain regarding the effect of spatial and temporal environmental factors on the relationship between viral RNA concentrations in wastewater and COVID-19 transmission in a community. We are inviting papers for this Special Issue that explore the utility of wastewater surveillance for detecting pathogens at a community or near source scale to better understand infectious disease transmission, as well as the use of WBE data to protect public health; papers describing method development for the quantification of pathogens in wastewater matrices are also welcome.

Guest Editors

Dr. Kristen Jellison

Dr. Vassie Ware

Dr. Tiong Gim Aw

Prof. Dr. Lian Lundy

Deadline for manuscript submissions

closed (1 June 2023)

Environments

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 5.7

mdpi.com/si/76498

Environments
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
environments@mdpi.com

mdpi.com/journal/environments

Environments

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 5.7

mdpi.com/journal/environments

About the Journal

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.

Editor-in-Chief

Prof. Dr. Sergio Ulgiati
1. Department of Science and Technology, Parthenope University of Naples, Centro Direzionale, Isola C4, 80143 Napoli, Italy
2. School of Environment, State Key Joint Laboratory of Environment Simulation and Pollution Control, Beijing Normal University, No. 19 Xinjiekouwai Street, Beijing 100875, China

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), PubAg, AGRIS, GeoRef, and other databases.

Journal Rank:

JCR - Q2 (Environmental Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the first half of 2025).

MDPI