Special Issue

Wastewater Surveillance and Detection of Antibiotic-Resistant Bacterial Pathogens

Message from the Guest Editor

Wastewater microbiome mirrors the intestinal colonization of a population in a geographic area, revealing the epidemiological markers of antimicrobial resistance spread. The detection of antibiotic-resistant bacterial pathogens and commensals is accomplished with the wastewater surveillance of relevant threats. Antimicrobial resistance spread is majorly influenced by the intestinal colonization of a population with antimicrobial-resistant bacteria. Wastewater surveillance represents a relevant approach for multidrug-resistance knowledge as a management tool for the detection of hidden threats. The “One-Health” approach of antimicrobial resistance needs to consider wastewater as a useful compartment to interpret spread and impact in natural environments, which is relevant from epidemiological and ecological points of view.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2025)

Pathogens

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 6.8
Indexed in PubMed

mdpi.com/si/196277

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The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

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