Special Issue

From Sewers to Solutions: Wastewater Surveillance in the Fight Against Antimicrobial Resistance

Message from the Guest Editors

Antimicrobial resistance (AMR) is a growing global threat to public health and ecosystems. Wastewater systems—particularly those linked to healthcare facilities and urban environments—serve as key reservoirs for resistant microorganisms and their genetic elements, facilitating AMR spread. This special issue focuses on the complex dynamics of AMR within hospital and urban wastewater systems, emphasizing recent advancements in detecting and characterizing resistant microbes, exploring wastewater microbiomes, and examining impacts on human and environmental health.

Guest Editors

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"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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