

Special Issue

Antimicrobial Resistance in Environments

Message from the Guest Editors

Environmental surveillance has emerged as a powerful One Health approach for understanding Antimicrobial resistance (AMR) dynamics across human, animal, and environmental interfaces.

This Special Issue aims to bring together original research articles, reviews, communications, and methodological studies addressing the occurrence, transmission, monitoring, risk assessment, and mitigation of AMR in environmental settings. Topics of interest include, but are not limited to, the following: * Environmental reservoirs of antimicrobial resistance; * Wastewater-based surveillance and epidemiology; * Resistome and mobilome characterization; * Metagenomics and genomic epidemiology of AMR; * Antimicrobial-resistant pathogens in aquatic and terrestrial environments; * Mobile genetic elements and horizontal gene transfer; * AMR in food production systems and aquaculture; * Environmental dissemination of clinically relevant resistance genes; * One Health approaches to AMR surveillance; * Risk assessment and public health implications of environmental AMR; * Emerging methodologies and technologies for AMR monitoring; * Strategies for AMR mitigation and environmental management.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

"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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2026).