Special Issue

Distribution, Sources and Risks of Bacteria and Their Antimicrobial Resistance Genes in the Environment

Message from the Guest Editors

Antimicrobial resistance (AMR) is a serious threat to human and animal health. Antibiotic resistant bacteria (ARB) and antibiotic resistance genes (ARGs) have been suggested as emerging environmental contaminants and potential health threats. However, there are still gaps in reliable and efficient assessments of risks to human health from exposure to ARB and ARGs in the environment, as well as on programs and tools to systematically measure and record antimicrobial contamination and ARB in the environment. Filling these critical research gaps is a prerequisite for the development of mitigation strategies and public health measures to limit environmental contamination from antimicrobial residues and AMR organisms. Therefore, this Special Issue welcomes collaborative submissions from different research fields that further study and clarify the risks for AMR associated with the environmental compartment, with special reference to distribution dynamics, sources and transmission risks of bacteria, and their antimicrobial resistance genes in the environment.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2024)

Antibiotics

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed

mdpi.com/si/180483

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Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciples are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

Editor-in-Chief

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