



## Environmental Pollution by Antibiotics and Antibiotic Resistance Determinants

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### Message from the Guest Editors

Dear Colleagues,

Antibiotic-resistant bacteria and antibiotic resistance genes are a new type of emerging anthropogenic pollutants. The presence of antimicrobial resistance in the environment is of great concern because the development of antibiotic-resistant pathogens threatens modern healthcare globally.

This Special Issue will focus on tracing the origins and identifying the drivers of antibiotics and antibiotic resistance determinants in environmental ecosystems. We are especially interested in the mechanisms and factors that influence the dissemination of ARGs through environmental pathways as well as the role of the environment in human transmission of antimicrobial resistance. The ultimate goal is to assess whether the environmental resistance exposure can result in measurable human health outcomes.

**Keywords:** antibiotic resistance, antimicrobial pollutants, environmental pathways, soil, agriculture, livestock, wastewater





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## Editor-in-Chief

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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.

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