

## Special Issue

# Antimicrobial Resistance and the Environment: One Health Approach

### Message from the Guest Editors

The overuse of antibiotics is one of the biggest drivers of antimicrobial resistance (AMR). AMR is a threat to public health and a priority across the globe. The environment (both aquatic and terrestrial) is recognized to be a source of pathogenic AMR microorganisms that could affect human health and accelerate the development and spread of resistances. AMR microbes can be found in surface waters, soils, animal and human waste streams, and crops. Discharge of waste from human, animal, and pharmaceutical origins into receiving waters, reuse of wastewater for crop irrigations, use of antibiotics in agriculture, and livestock farming and fisheries are some of the anthropogenic activities that have contributed to AMR in the environment. This Special Issue welcomes contributions in AMR in the following environment research areas: assessment and monitoring including biosensors, microbiomes, metagenomics, ARGs transfer and risk assessment. We accept original research, reviews, mini-reviews, and meta-data analyses. **Keywords** antimicrobial resistance; antibiotic resistant genes; environment; microbiome; monitoring; risk assessment

### Guest Editors

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### Deadline for manuscript submissions

closed (31 August 2021)



## Antibiotics

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CiteScore 8.7  
Indexed in PubMed



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## About the Journal

### 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 disciplines 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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### Editor-in-Chief

Prof. Dr. Nicholas Dixon  
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