



## Antimicrobial Resistance and the Environment: One Health Approach, 2nd Edition

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### Message from the Guest Editors

Dear Colleagues,

The inappropriate use of antibiotics to treat infections or prevent disease promotes growth in animals and plants leads to changes in the gut and soil microbiota. Such environments create ideal conditions for the development of AMR and transfer of this resistance among organisms. Recognising the risk associated with AMR in the environment can help to develop an effective integrated strategy to protect human and animal health.

Building on the success of our first Issue, we are proposing a second Issue to address this important research area. This Special Issue welcomes contributions in the following AMR in the environment research areas: assessment and monitoring including biosensors, microbiomes, metagenomics, ARG transfer, and risk assessment. We accept original research, reviews, and meta-data analyses.

The Special Issue is focused on the use of antibiotics, including on animals and in agriculture, antibiotic resistance and misuse, antimicrobial stewardship, and quantitative research exploring the determinants of antimicrobial use and resistance and developing new perspectives in this field.

**Keywords:** antibiotics; resistome; ARG; ARB; environmental pollution





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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 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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