

Special Issue

The Effects of Heavy Metals and Other Environmental Contaminants on Antimicrobial Resistance

Message from the Guest Editors

Submissions are invited for this Special Issue of ***Antibiotics*** dedicated to a topic of growing importance: the emergence of microbes resistant to a range of antimicrobial compounds in environments contaminated with heavy metals (more precisely defined as Trace Elements of Environmental Concern, TEoECs) and other environmental contaminants. The increasing intensification of human activity in both urban and rural environments, and related effects on undeveloped, once pristine areas, have created situations where a range of compounds contaminate diverse ecosystems. This situation may promote selection for resistance to TEoECs and compounds used as antimicrobials, even in the absence of the latter. This Special Issue welcomes the submission of manuscripts including original research papers, review articles and opinion papers. Presentation of data on the quantification of cross-resistance and co-resistance for TEoECs and antimicrobials in diverse environments including, for example, hospital settings; effluent from healthcare facilities, farms and other agricultural facilities, industry, and wastewater treatment plants; and land and water receiving discharges from these plants.

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Deadline for manuscript submissions

closed (30 June 2024)



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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.

Editor-in-Chief

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