Special Issue

Antimicrobial Resistance Genes: Spread and Evolution

Message from the Guest Editors

The burden of resistant strains and the threat posed by their increasing incidence worldwide have both healthcare and economic impacts. Besides being used for human therapy, antimicrobials are extensively used for animal farming and for agricultural purposes. Nevertheless, the effect of the use of antimicrobials on the biosphere is wider than this and can impact the structure and activity of environmental microbiota. The clearest consequence of antimicrobial release in natural environments is the emergence and selection of resistant bacteria This Special Issue seeks manuscript submissions that further our understanding of antimicrobial resistance, including: a) the identification of epidemic and persistent strains; b) the identification of reservoirs of resistant strains that could persist in the hospital and natural environment, but also in animal and food sources; c) the elucidation of mechanisms of the acquisition and spread of resistance and virulence factors amongst microbial populations; and d) the investigation of gene flow and the evolutionary pathways of antimicrobial resistance among microbial populations.

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Deadline for manuscript submissions

closed (29 June 2025)

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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 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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