Special Issue

Multidrug-Resistance Patterns in Infectious Pathogens

Message from the Guest Editors

Multidrug resistance (MDR) in infectious pathogens is a growing global health concern that affects not only clinical settings but also extends to companion animals, livestock, and the environment. MDR bacteria, such as Enterobacterales, Staphylococcus aureus, and Pseudomonas aeruginosa, among others, present significant challenges to current treatment options due to their ability to resist multiple antibiotics. The spread of pathogens with difficult-to-treat resistance (DTR) through hospital fomites, food chains, water systems, and animal contact underlines the urgency for global surveillance, innovative research, and coordinated action to combat this issue. This Special Issue aims to provide a platform for the latest research on the prevalence, mechanisms, and control strategies of MDR or DTR in diverse settings. By exploring patterns of multidrug resistance across different reservoirs, we hope to foster a comprehensive understanding of the factors driving resistance and encourage the development of more effective solutions.

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Deadline for manuscript submissions

30 September 2025

Antibiotics

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed

mdpi.com/si/216602

Antibiotics
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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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