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Antimicrobial Resistance Mechanisms and Antimicrobial Resistance Genes of Pathogens

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Message from the Guest Editors

Antimicrobial resistance has become a worldwide public health threat due to the wide use of antibiotics in medicine, veterinary medicine, agriculture and poultry, and multidrug-resistant microorganisms can be frequently identified in both hospital and community settings. Antimicrobial resistance in microorganisms primarily arises from mutational adaptation, alteration of gene expression and acquisition of exogenous genetic materials. In particular, mobile genetic elements act as highly flexible genetic platforms of antimicrobial resistance genes, and they have intercellular or intracellular mobility and thus greatly promote the accumulation and spread of antimicrobial resistance genes between the same or different microbial species. This Special Issue seeks manuscript submissions that offer insights into the surveillance, epidemiology, biochemistry, genetics and genomics of antimicrobial resistance genes and associated mobile genetic elements.

Deadline for manuscript submissions:
closed (30 June 2023)

mdpi.com/si/117893

Special Issue

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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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Journal Rank: JCR - Q1 (Infectious Diseases) / CiteScore - Q1 (General Pharmacology, Toxicology and Pharmaceutics)

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