

Special Issue

Genomic Insights: Exploring Antimicrobial Resistance, Virulence, and Epidemiology in Microbial Worlds

Message from the Guest Editors

The microbial world is a vast and intricate realm, harboring both threats and opportunities for human health. In the context of our ongoing battle against infectious diseases and antimicrobial resistance (AMR), genomics has emerged as a powerful tool to explore, understand, and combat microbial threats. The genomic era has revolutionized our understanding of microbial communities, revealing the genetic underpinnings of AMR, virulence, and pathogen dynamics. As the interplay between microorganisms and human and environmental ecosystems becomes increasingly complex, genomics provides invaluable insights. Together, we aim to harness the power of genomics to illuminate the hidden facets of microbial worlds and, in doing so, advance our understanding of AMR, virulence, and infectious disease epidemiology. This Special Issue invites researchers to contribute original research, reviews, and methodological advancements that leverage genomics to unravel the mysteries of AMR, virulence factors, and epidemiology. The topics of interest include whole-genome sequencing, metagenomics, comparative genomics, and epidemiological analyses, among others.

Guest Editors

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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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