

Special Issue

Antibiotic Therapy against Bacterial Infection: Efficacy, Determinants, Mechanism and Future Prospects

Message from the Guest Editors

Dear colleagues, Antibiotics are by far some of the most used drugs, both in human and veterinary medicine. Even though mortality related to infectious diseases decreased deeply after the introduction of antibiotics into clinical practice, in recent decades, mortality rates due to multidrug-resistant organisms (MDRO) have increased at a steady and alarming pace, making antimicrobial resistance (AMR) a major global health concern today. To improve patient outcome and minimize consequences (especially in terms of emergence of MDRO), it is essential to choose the right drug, for the right patient, at the right time, and at the right dose. In this respect, awareness of the responsible prescription of antibiotics and their combinations needs to be strengthened. This Special Issue welcomes submissions concerning the responsible prescription of antibiotics, antibiotics susceptibility testing, sustainable development of novel antibiotics classes, and alternative strategies to tackle AMR. **Keywords:** pharmacodynamics; empiric antimicrobial therapy; antimicrobial combinations; antimicrobial susceptibility testing; antimicrobial stewardship; antimicrobial resistance

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Deadline for manuscript submissions

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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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