



10th Anniversary of Antibiotics—New Resources and Strategies in the Search for Antimicrobials

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Message from the Guest Editors

The threat posed by infections arising from antimicrobial-resistant microorganisms is a global concern. Despite this trend, the future development of new antimicrobial agents is currently very uncertain, and there is a need for antimicrobials, as any substance of natural, semisynthetic or synthetic origin that kills or inhibits the growth of microorganisms but causes little or no damage to the host. They are antibiotic (also termed antibacterial), antifungal and antiparasitic drugs, or antiviral compounds. The main mechanisms of antimicrobial action, amongst other, are agents that inhibit cell wall synthesis, depolarize the cell membrane, inhibit protein synthesis, inhibit nucleic acid synthesis, and inhibit metabolic pathways in microorganisms. Both exploring new resources and strategies will be important to ensure that antimicrobial agents are developed in the decades to come is the main goal of this Special Issue.

Keywords: antimicrobial; antibacterial; antifungal; antiparasitic; antiviral; new resources; new strategies

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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 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.

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