Special Issue

Antimicrobial and Anti-infective Activity of Natural Products

Message from the Guest Editors

Antimicrobial drugs represent one of the great scientific advances in the medical field. However, a dramatic increase in antimicrobial resistance has compromised the effectiveness of these drugs. Thus, there is an increased need to search for new antimicrobial compounds. A growing area of research in this regard is the investigation of antimicrobial activities in natural products from different sources, including plants, microorganisms, and animals. Another important area of research in combating resistant microorganisms is the investigation of compounds that neutralize or inactivate bacterial resistance mechanisms—for example, compounds that inhibit efflux pumps or beta-lactamases. Furthermore, there are molecules that can interfere with bacterial virulence properties. The main advantage claimed for antivirulence therapy is the reduced selective pressure on the pathogen and, consequently, the lower possibility of the emergence of resistance.

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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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