



## Surveillance and Optimization of Antibiotics Usage

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### **Message from the Guest Editors**

From ancient quinine to the newly synthesized oxazolidinones, antibiotics have drastically changed human civilization and modern medicine in just over 100 years, widely prescribed in medical institutions across all departments, patients, and places of treatment. In community pharmacies, antibiotics are one of the most commonly prescribed drugs. The appropriateness of antibiotics is a global issue, mainly associated with factors such as antibacterial resistance evaluation, the rational choice of drugs, the optimization of drug usage and dosages, and the management of drug adverse reactions and costs.

Antibiotic use is strictly managed in hospitals, considering how widely they are used, the expenditure, and the serious consequences of antimicrobial abuse. Additionally, bacterial resistance surveillance systems are relatively well established, providing data for guidance on the appropriateness of antibiotics. Nevertheless, with the increasing complexity of clinical infections, the rational use of antibiotics still needs further research and improvement.





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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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