



Combating Antibiotic Resistance with Precision Medicine: The Value of Diagnostic

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Message from the Guest Editors

In recent years, more and more high-quality, effective and adequate diagnostic tests have been developed to guide the appropriate use of antibiotics, which are also becoming more available in any setting. These techniques and equipment not only contribute to the improvement of the health of patients but, in the long term, can contribute to contain the problem of AMR.

This Special Issue hopes to receive manuscripts that promote a better understanding of the value that the improvement of the diagnoses of infections, in any type and scope of care, can bring to improve the precision and personalization of prescriptions and the impact of this improvement on the containment of antimicrobial resistance. In particular, studies that expand the information available on the comparative efficiency of diagnostic procedures susceptible to alternative use are desirable.

Keywords

- Antibiotic prescription and use
- Antimicrobial resistance (AMR)
- Diagnostic methods and technologies
- Precision medicine
- Stratified medicine
- Personalized medicine
- One Health





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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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