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Antimicrobial Resistance: Current Status and Future Directions

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Message from the Guest Editors

Resistance to antimicrobial drugs and the emergence of multi-resistant bacterial and fungal strains represent a problem of clinical relevance that poses serious threats to public health worldwide. The World Health Organization (WHO) has underlined that epidemiological surveillance is considered an essential factor for the control and management of the antimicrobial resistance problem. In addition, WHO has also highlighted the importance of researching new classes of antimicrobial drugs to implement currently available drugs.

This Special Issue covers all aspects contributing to the resolution of the antimicrobial resistance phenomenon, i.e., epidemiological surveillance and all aspects of the discovery of new therapeutic options for multidrug-resistant infections, which include nanomaterials, natural and synthetic compounds, repurposed drugs and existing drugs modified to treat multidrug-resistant infections. We invite researchers to contribute original research and review articles.

Keywords

- antimicrobial resistance
- bacteria
- fungi
- epidemiology
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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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