Special Issue

Advances in Antibiotic and Antifungal Resistance and Related Alternative Therapies

Message from the Guest Editor

Antibiotic resistance has become the greatest challenge in the field of public health, particularly when treating infections in animals and humans caused by multi-drug-resistant strains. The most concerning fact in pathogenic bacterial growth is their increasing resistance to various groups of antibiotics that are currently used in therapy. This ongoing process represents the most dangerous threat to the effectiveness of the existing antibiotics, and that is why research is needed to find more effective alternative treatments. There is a need for accurate data concerning the constant way in which bacteria evolve and manage to evade drug influence. In this way, more knowledge will be brought to the field concerning the mechanisms of resistance and ways to combat this. This Special Issue is focused on publishing multidisciplinary research that focuses on this complex issue. We encourage the publication of all important and updated results in the field of food microbiology, antibacterial resistance, characterization of alternative methods, efficient antimicrobial agents and techniques to develop them.

Guest Editor

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About the Journal

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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