Special Issue

Advanced Research on Antimicrobial Activity of Natural Products

Message from the Guest Editors

The global rise of antimicrobial resistance presents a critical challenge to public health, as antibiotics steadily lose their effectiveness against a growing number of resistant pathogens. This Special Issue aims to highlight the discovery, characterization, and application of bioactive compounds derived from natural sources, with a focus on combating resistant strains and exploring innovative therapeutic strategies. We warmly invite researchers to contribute original research articles and in-depth reviews. Areas of interest include, but are not limited to, the following:

- Identification and isolation of novel antimicrobial compounds;
- Mechanistic studies and biosynthetic pathways;
- Synergistic effects with existing antibiotics;
- Exploration of traditional medicinal plants and their derivatives.

Contributions that emphasize the transformative potential of natural ingredients in addressing the limitations of current antibiotic therapies are especially encouraged. We look forward to your valuable contributions.

Guest Editors

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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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