



Isolation and Utilization of Essential Oils: As Antimicrobials and Boosters of Antimicrobial Drug Activity

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Message from the Guest Editors

This Special Issue on “Isolation and Utilization of Essential Oils: As Antimicrobials and Boosters of Antimicrobial Drugs Activity” aims to curate novel advances in the development and application of essential oils as antimicrobial agents via combinatorial and nano-based approaches.

Topics include but are not limited to:

- The use of essential oils to prevent the emergence of antimicrobial resistance, to enhance the efficacy ;
- Combination therapy associating conventional antimicrobial drugs and essential oil constituents as a promising strategy in overcoming antimicrobial resistance;
- The mechanisms underlying antimicrobial enhancing or antimicrobial resistance reversal effects of essential oils constituents;
- Small-scale formulations as an efficient approach to improve solubility, stability, and to provide controlled-release delivery of essential oils and to boost their antimicrobial activity against different pathogens;
- Antimicrobial activity of drug delivery systems encapsulating essential oil compounds, with emphasis on their preparation methods and characteristics, benefits, mechanisms of action, and biocompatibility issues.





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Message from the Editor-in-Chief

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