



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

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Deadline for manuscript
submissions:

closed (30 November 2021)

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.





an Open Access Journal by MDPI

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Message from the Editor-in-Chief

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