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

Guest Editors:

Dr. Elwira Sieniawska

Department of Natural Products
Chemistry, Medical University of
Lublin, 20-093 Lublin, Poland

Prof. Greige-Gerges Helene

Bioactive Molecules Research
Laboratory, Faculty of Science,
Lebanese University, P.O. Box
6573/14 Badaro, Museum, Beirut,
Lebanon

Dr. Adriana Trifan

Department of Pharmacognosy,
Faculty of Pharmacy, Grigore T.
Popa University of Medicine and
Pharmacy Iasi, Universitatii
Street 16, 700115 Iasi, Romania

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.



mdpi.com/si/42973



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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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