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Essential Oils Extraction Methods, Chemistry and Bioactivities: New Insights and Findings

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Message from the Guest Editors

There is a myriad of secondary metabolites derived and isolated from various plants. They represent a treasure trove of chemistry that can be of both interest and benefit to humans. Essential oils are aromatic, oily liquids extracted from different plant parts. They occur during secondary metabolism, and are normally formed in special cells or cell groups or in glandular hairs found on many leaves and stems. Chemically, a single volatile oil comprises of up to 200 different constituents of terpenoid and non-terpenoid origin, which are synthesized through different biosynthetic routes with distinct primary metabolic precursors.

This Special Issue welcomes research papers on essential oil extraction methods associated with chemistry and related bioactivities fields. The focus is on the variability of composition in relation to various factors, such as climatic or harvest time, nutritional status, or the isolation methods. New aspects of analysis, chemical characterization, and advancement in the extraction methods are of particular interest, as well as machine learning or artificial intelligence algorithm applications that study the composition–bioactivity correlation.



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Special *issue*



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Message from the Editor-in-Chief

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