

Special Issue

Chemical Composition and Biological Activity of Plant Essential Oil

Message from the Guest Editors

The Special Issue "Chemical Composition and Biological Activity of Plant Essential Oils" focuses on exploring the diverse chemical profiles and bioactivities of essential oils derived from plants. Due to their complex chemical mixtures of volatile compounds, essential oils can exhibit a wide range of biological properties, such as antimicrobial, antiviral, antioxidant, anti-inflammatory, cytotoxic, and anticancer activities. This issue aims to highlight recent advancements in the identification and characterization of essential oil chemical components using state-of-the-art analytical techniques, such as gas chromatography-mass spectrometry (GC-MS). Additionally, it seeks to examine the therapeutic potential of essential oils, as well as their applications in medicine, cosmetics, agriculture, and food preservation, among others. By emphasizing interdisciplinary research, this issue provides insights into the chemical diversity of essential oils and their practical uses, fostering a deeper understanding of their role in natural product science and sustainable development of various products.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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