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Essential Oils: Chemistry and Biology, and Their Interplay

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Message from the Guest Editor

This Special Issue of the journal *Plants* delves into the intricate world of essential oils, exploring their chemistry, biological significance, and the dynamic interplay between these aspects. Highlighting the vast diversity of essential oils, contributors present a mosaic of plant-derived compounds, each with its unique chemical profile and biological activity.

Cutting-edge analytical techniques take center stage, unveiling the intricate compositions of essential oils and elucidating their complex interactions within ecosystems. Researchers delve into the volatilome, unraveling the volatile organic compounds that constitute essential oils and exploring their role in plant communication and defense mechanisms.

This Special Issue underscores the paramount importance of essential oils in various domains, from traditional medicine to modern pharmacology and beyond. Their ecological role takes prominence, with discussions on their impact on plant–insect interactions, biodiversity maintenance, and ecosystem resilience.



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Special Issue



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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, 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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