

Special Issue

Chemical Composition and Quality Assessment of Essential Oils from Plants

Message from the Guest Editors

Based on the numerous side effects of synthetically derived medicines, many people are trying to transform their lifestyles through naturopathy. Unfortunately, due to a lack of complete instrumental techniques and strict government regulation, adulteration of natural products is rampant all over the world: adulteration is impacting therapeutic values of oils as well as economy of country. It is estimated that approximately 80% of commercially available, so-called “natural” essential oils are adulterated in some ways. Through research and the establishment of proper standards, which include detailed chemical profiles of what authentic essential oils look like chemometrically and thorough analysis of essential oils by synthetic markers and biomarkers, progress is being made to overcome the instrumental limitation in essential oil analysis and identify adulterated essential oils.

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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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