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Prospects of Essential Oils in Drug Discovery

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Message from the Guest Editors

Plant-derived essential oils (EOs) have been used since ancient times and their antioxidant, antibacterial, antifungal activities have been recognized. However, despite the advances in recent decades on the use of EO in regular medicines, they are still considered as products to be used only in complementary and alternative medicine. Nevertheless, nowadays, *in silico*, *in vitro*, and *in vivo* studies, as well as evaluation of selected physicochemical parameters used in conventional drug discovery, have proved that many EO components meet requirements for good drug candidates.

The topics covered by this issue include *in silico*, *in vitro*, and *in vivo* studies on the application of essential oils and compounds thereof that demonstrate the potential of EOs and their compounds thereof as drug candidates for the treatment of a wide range of diseases, including cancer, diabetes, cardiovascular, and neurodegenerative diseases. The antimicrobial, antiparasitic, antioxidant, anticancer, anti-inflammatory, and cytotoxic effects of essential oils and their major compounds, as well as their action mechanisms, will be also considered.



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