



Essential Oil and Plant Extracts: Chemical Composition and Antimicrobial Activity

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Message from the Guest Editors

Dear Colleagues,

Essential oils and plant extracts are volatile and aromatic mixtures of various compounds with pronounced biological activity. Their chemical composition depends on the source from which they are derived and the type of their isolation, which affects the antimicrobial activity of the oil. Many studies have focused on the connection between the chemical composition of plant derivatives, such as essential oils and extracts, and their antimicrobial activity. Currently, researchers are focusing on the biological activity of these plant derivatives and their application in various matrices as food, pharmaceutical and cosmetic preparations. Therefore, the main subject of this Special Issue is the determination of the chemical composition of essential oils and plant extracts, and the examination of their antimicrobial activity. Manuscripts including the practical application of essential oils and plant extracts based on their antimicrobial activity in food protection, food packaging materials and other aspects related to the food industry are especially encouraged.





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Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciplines are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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