

Special Issue

Phytochemical Profiling, Antioxidant Activity and Therapeutic Properties of Medicinal Plants

Message from the Guest Editor

Medicinal plants are among the most valuable natural resources for human health, providing structurally diverse secondary metabolites with expressed antioxidant, anti-inflammatory, and therapeutic properties. In the frame of increasing interest in natural products, functional foods, and nutraceuticals, scientific investigation is crucial to validate traditional knowledge, ensure quality and safety, and translate phytochemicals into clinically relevant applications. Recent advances in analytical technologies, extraction optimization, and bioactivity assays have enabled more precise profiling of phenolic compounds, flavonoids, proanthocyanidins, essential oils, and other phytochemicals. By uniting phytochemistry, pharmacology, and applied biotechnology, this Special Issue aims to stimulate the discovery of new natural health products, promote the sustainable utilization of medicinal plants, and provide scientific evidence supporting their integration into modern healthcare and food systems.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of “oxidative stress” a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

Editor-in-Chief

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