

Special Issue

Phytochemicals and Bioactive Compound-Based Pharmaceutical Formulations in Health and Disease: From Mechanisms to Therapeutic Applications

Message from the Guest Editor

Phytochemicals and other naturally derived bioactive compounds continue to attract significant attention for their potential roles in the prevention and treatment of various diseases. These compounds—ranging from polyphenols, flavonoids, and alkaloids to terpenes and saponins—have demonstrated diverse biological activities, including antioxidant, anti-inflammatory, antimicrobial, anticancer, neuroprotective, and cardioprotective effects. Understanding their mechanisms of action, pharmacokinetics, delivery systems, and clinical potential is essential for translating these natural products into effective therapeutic strategies. This Special Issue aims to bring together original research articles, reviews, and short communications that explore the extraction, characterization, biological activity, formulation, and therapeutic potential of phytochemicals and other bioactive compounds. Contributions may address molecular mechanisms, in vitro and in vivo studies, novel delivery systems, synergistic effects with conventional drugs, and clinical perspectives.

Guest Editor

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