

Special Issue

Molecular Insights into Phytochemicals: Therapeutic Potential in Metabolic Disorders and Cancer

Message from the Guest Editor

This Special Issue, titled "Molecular Insights into Phytochemicals: Therapeutic Potential in Metabolic Disorders and Cancer," aims to provide a comprehensive platform for advancing our understanding of the molecular mechanisms underlying the health benefits of phytochemicals. With the increasing burden of cancer and metabolic diseases, such as diabetes, obesity, and cardiovascular disorders, plant-derived bioactive compounds have emerged as promising candidates for novel therapeutic interventions. We welcome high-quality original research articles, reviews, and short communications that investigate the role of phytochemicals in modulating gene expression, cell signaling, epigenetic modifications, oxidative stress, inflammation, apoptosis, and metabolic regulation. Studies employing molecular biology techniques, high-throughput omic approaches (genomics, transcriptomics, proteomics, metabolomics), computational modeling, and systems' biology are particularly encouraged. Additionally, contributions exploring phytochemical synergy with conventional treatments, innovations in bioavailability and delivery systems, and translational or preclinical models are highly relevant.

Guest Editor

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Message from the Editor-in-Chief

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