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Mechanisms of Dietary Plant Extracts in the Regulation of Metabolic Syndrome and Inflammatory Disorders

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Message from the Guest Editors

Dear Colleagues,

Metabolic syndrome is a constellation of disturbances including glucose intolerance, central obesity, hypertension, and dyslipidemia present in several forms, depending upon the combination of the different components of the syndrome. The initiation and development of a variety of metabolic syndromes and human diseases accompanies inflammation, which is a major defense of the cells and body adaptation to environmental conditions. More recently, the chronic low-grade inflammatory condition that often accompanies the metabolic syndrome has been implicated as a major factor both in the installation of the metabolic syndrome and its associated pathophysiological consequences. Plenty of scientific results have suggested that dietary plant extract ingestion, such as polyphenol, can protect cells from excess inflammatory responses and ameliorate metabolic syndrome via regulating inflammation-related signaling pathways and changing gut microbiota. However, the detailed mechanisms underlying the role of these plant extracts in the regulation of inflammation, oxidative stress, and microbiota remain largely unknown.



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Special Issue



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Message from the Editor-in-Chief

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