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Current Trends of Natural Bioactive Molecules in Regulation of Cell Signaling Pathways in Different Diseases

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Message from the Guest Editors

It is widely accepted that a high intake of natural bioactive molecules is associated with a decreased risk of chronic disease. According to in vitro and in vivo studies, bioactive molecules possess therapeutic potential in chronic diseases by modulating different signaling pathways. However, the molecular mechanisms behind these activities are not quite clear yet.

In this Special Issue, the latest findings on the health-promoting effects of bioactive molecules, such as anti-oxidative stress, anti-cancer activity, anti-inflammatory activity, and neuroprotective activity, will be summarized. Furthermore, the cell signaling pathways (such as PI3K/Akt/mTOR, JAK/STAT, STAT3, MAPK, TNF, Notch, AMPK, Wnt/ β -Catenin, mTOR, TRAIL, Fas, NF- κ B, etc.) of bioactive molecules in exerting health-promoting effects will be discussed. Lastly, the underlying molecular mechanisms of how these bioactive molecules regulate their health-promoting effects will be elucidated.



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Special Issue



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Message from the Editor-in-Chief

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