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Synthesis and Regulation of Active Compounds in Medicinal Plants

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Deadline for manuscript submissions:

closed (30 June 2024)

Message from the Guest Editors

Dear Colleagues,

Active compounds are plant-specialized metabolites, providing the basic nutritional constituents beyond the unique health benefits. They exhibit specific pharmacological activities against anti-tumor, anti-aging, anti-inflammatory, and anti-cardiovascular and cerebrovascular diseases. Additionally, they may also play a critical role in the adaptation of medicinal plants to biotic and abiotic stresses.

The present Special Issue encourages original research articles and reviews that that aim to decipher biosynthesis and regulation of active compounds in medicinal plants and their potential applications.

In particular, we invite discussions on elucidating metabolism pathways, on the application of metabolic engineering for biosynthesis of active compounds, and on metabolic networks and the regulation roles of active compounds. Studies on how active compounds are regulated by abiotic and biotic factors, exogenous elicitors or different treatments through high-throughput strategies (not limited to genomic, transcriptomic, proteomic, metabolomic, biochemical, molecular, and omics-based techniques) are also welcome.













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Editor-in-Chief

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Message from the Editor-in-Chief

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