

Special Issue

Synthesis and Regulation of Active Compounds in Medicinal Plants

Message from the Guest Editors

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 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.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2024)



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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

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