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Research of Metabolomics and Active Principle in Medicinal Plants

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Message from the Guest Editors

Recent studies on plant-based natural products have brought sophisticated results that have established the basis for modern traditional medicine, and today, plants remain an essential source of active compounds. Apart from human use, specialized metabolites play important ecophysiological roles in the complex plant–environment relationship. Biotic and abiotic factors affect the biosynthesis of a wide range of specialized metabolites. For medicinal exploitation purposes, it is, therefore, important to identify the different (biotic, abiotic, and seasonal) factors that may affect the production and accumulation of specialized metabolites in different populations of species.

In this Special Issue, we expect to bring together works that use metabolomic approaches to advance the understanding of plant–environment interactions, the determination of chemical markers, and the prioritization and targeted isolation of active principles from medicinal plants. Metabolomic work performed in different analytical platforms such as LC–MS, GC–MS, and NMR, among others, will be considered.

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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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