



## Natural Products: Chemical Profiling, Computational Studies and Bioactivities

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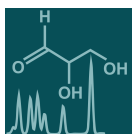
Deadline for manuscript  
submissions:

**closed (31 October 2023)**

### Message from the Guest Editors

This Issue presents different studies carried out on natural products isolated or identified from plants or fungal endophytes associated with those plants. Natural products can represent a wide variety of chemical classes, such as flavonoids, terpenoids, essential oils, alkaloids, and many others. Such compounds can be identified via LC-MS, GC-MS, TLC-MS, and different NMR spectroscopic techniques. Metabolomics studies can share in further classification and clustering of these secondary metabolites and the differentiation of closely-related varieties. Moreover, many natural products are well known for promising biological activities such as antioxidant, anti-inflammatory, cytotoxic, hepatoprotective, renoprotective, neuroprotective, etc. The study of such activities can be evaluated through both *in vitro* and *in vivo* studies and can be further supported by various histological and computational studies. *In silico* molecular docking and dynamics can present possible binding interactions with the receptor's active site proteins and binding stability. ADME studies are carried out nowadays for many natural products, such as drug-likeness and *in silico* toxicity profiles.





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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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