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Bioactive Compounds from Medicinal Plants and Plant-Based Foods: Advances and Opportunities

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Message from the Guest Editors

Investigations on natural products have recently regained prominence with the increasing understanding of their biological significance and increasing recognition of the origin and function of structural diversity. Medicinal plants and plant foods have always represented a valuable source of new active compounds and of potential lead compounds for the discovery of new drugs. At the same time, a great deal of evidence supports the existence of an inverse correlation between adherence to specific diets based on the consumption of fruits, vegetables, and edible plants and the occurrence of various human degenerative diseases. The focus of this Issue includes all aspects of natural products as potential bioactive agents for the prevention and/or treatment of degenerative diseases through the development of new drugs, functional foods, or food supplements.

Subtopics:

Natural products from higher plants;

Isolation methodologies and techniques;

Structural elucidation, Metabolomic studies and Molecular modeling studies of bioactive compounds or extracts;

Functionalization of food with bioactives;

Application of biotechnology to improve extraction of bioactives.



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Message from the Editor-in-Chief

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