Special Issue

Potential and Challenges of Plant-Based Bioactive Compounds as Functional Food Ingredients

Message from the Guest Editors

With increasing attention on human health and environment, functional foods using plant-based bioactive compounds has attracted more and more interest, owing to their health promotion ability, natural sources, and environmentally friendliness. Plant-based bioactive compounds including polyphenols , terpenoids, polysaccharides, peptides, alkaloids, saponins, etc., possess various bioactive functions, such as antioxidant, anticancer, hypotensive, hypolipidemic capacities, etc., presenting great potential as functional food ingredients. However, they face enormous challenges during their application in functional food; for example, their instability in the environment, consumer acceptability and low bioavailability. Therefore, various strategies have been proposed to conquer these challenges, such as diverse delivery systems including nanoemulsion, microencapsulation, etc., which have been developed to improve the stability of plant-based bioactive compounds during storage. Promising techniques aim to facilitate the application of bioactive compounds in functional food will further accelerate the advances of functional food industry.

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Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, Foods has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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