



New Insights into Natural Antioxidants in Foods

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Message from the Guest Editor

The broad range of natural antioxidant-active compounds results in various mechanisms of antioxidant action in food, such as free radical scavenging, scavenging of molecular oxygen, chelating transition metal ions, regeneration of other antioxidants (such as tocopherols), and finally, inhibition of pro-oxidant enzymes. Moreover, the final antioxidant effect in food is the result of various factors, such as concentration of antioxidants, interaction with food constituents, mode of incorporation (direct or indirect) into food products, and storage conditions.

The aim of this Special Issue is to bring new insights into natural antioxidants in food in terms of new sources of these compounds, extraction and purification techniques from various materials, new application strategies in food (biofilms, nanocapsules, etc.), interaction of natural antioxidants with other compounds in the food matrix (e.g., polyphenols–proteins interaction), and finally, development of mathematical models for describing changes to the antioxidant activity of food products during storage.

Keywords

- natural antioxidants
- plant extracts
- interaction of antioxidants with food constituents





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