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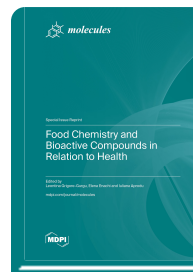
Special Issue Reprint

Food Chemistry and Bioactive Compounds in Relation to Health

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The global rise in life expectancy has brought increased attention to age-related health challenges, particularly those associated with oxidative stress. As a result, bioactive compounds have emerged as key components in the promotion of health and the prevention of chronic diseases. Numerous epidemiological studies suggest that a diet rich in antioxidant bioactive compounds can have beneficial effects on human health, potentially reducing the risk of diseases linked to oxidative stress, metabolic imbalance, and age-related functional decline. The current Reprint Edition of the Special Issue focuses on several key areas: the extraction, purification, and structural elucidation of novel bioactive compounds from natural sources; the characterization of these compounds for potential use in food, pharmaceutical, and cosmeceutical applications; and the investigation of their metabolic pathways and biological activities using advanced analytical techniques, including metabolomics. These studies contribute to a deeper understanding of how bioactive compounds support health and help mitigate the effects of aging and disease.



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