

Special Issue

Role of Bioactive Compounds in Oxidative Stress and Inflammation

Message from the Guest Editors

This Special Issue titled "Role of Bioactive Compounds in Oxidative Stress and Inflammation" in the *Nutrients* journal explores the intricate relationship between bioactive compounds and their potential to modulate oxidative stress and inflammatory responses. Oxidative stress, caused by an imbalance between reactive oxygen species and antioxidants, is involved in various chronic diseases, including cardiovascular disorders, diabetes, and neurodegenerative conditions. Research in this field has increasingly highlighted the protective roles of dietary bioactive compounds—such as polyphenols, flavonoids, and carotenoids—found in fruits, vegetables, and other natural sources. This Special Issue aims to shed light on the mechanisms by which these compounds exert their beneficial effects on health, focusing on their antioxidant properties, anti-inflammatory actions, and potential in disease prevention and management. Key areas of interest include the bioavailability of these compounds, their interactions within biological systems, and emerging therapeutic applications.

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Message from the Editorial Board

Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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