



Oxidative Stress Modulators and Functional Foods

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Message from the Guest Editor

Many years of research have seen the investigation of natural antioxidants as functional foods with the potential to prevent oxidative stress due to the scavenging of reactive oxygen species (ROS) and reactive nitrogen species (RNS). Recent studies have also revealed that cell signalling pathways such as Nrf2-ARE signalling with antioxidant protein (HO-1) expression play significant roles in the cell's survival response to avoid cell damage by the excessive production of ROS, RNS, or electrophiles. Therefore, natural products extending beyond the traditional antioxidant role are gaining a great deal of attention in functional foods, which can protect against various diseases related to oxidative stress.

This Special Issue will publish both reviews and original research papers on not only the antioxidant role of natural products, but also their ability to modulate the oxidative stress and/or reverse disease both in vitro and in animal models or in humans. Additionally, the molecular mechanisms of these actions and the modulation of the signalling pathways in the redox system by natural products will be included.





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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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