



Oxidative Damage: The Role of Endogenous and Exogenous Antioxidant Systems

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Message from the Guest Editor

Reactive oxygen species (ROS) and reactive nitrogen species (RNS) are produced by living organisms as a result of normal cellular metabolism. Free radicals and oxidative stress are associated chronic diseases in humans and are even thought to be involved in the ageing process. Human cells possess several mechanisms to protect against oxidative stress, including antioxidants, such as, uric acid, coenzyme Q, and glutathione, and enzymes (including catalase, superoxide dismutase, and glutathione peroxidase).

Diet is also important for oxidative stress in humans, as some foods contain antioxidants and other bioactive molecules that have antioxidant properties. These molecules can counteract oxidative stress and protect cellular macromolecules from damage. This Special Issue “Oxidative Damage: The Role of Endogenous and Exogenous Antioxidant Systems” welcomes the submission of manuscripts either describing original research or reviewing the scientific literature, examining the role of endogenous and exogenous antioxidants and the molecular mechanisms involved in their physiological roles.





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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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