



Oxidative-Stress in Human Diseases

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Message from the Guest Editors

Oxidative stress (OS) plays an essential role in the pathogenesis of human chronic diseases. ROS/RNS, such as superoxide ($O_2^{\cdot-}$), hydrogen peroxide (H_2O_2), hydroxyl radical (HO^{\cdot}), nitrogen oxide (NO^{\cdot}), peroxynitrite ($ONOO^-$) and hypochlorous acid ($HOCl$), are all products of normal metabolic pathways in humans and their production may be increased as a result of the influence of external factors, such as pollution, cigarette smoke, or internally, as a result of impaired intracellular metabolism. Long term exposure to increased levels of ROS/RNS can cause structural defects of lipids, proteins, DNA and RNA, as well as functional alteration of several enzymes and cellular structures leading to an increase of OS and pathogenesis.

We invite you to share with our community your latest original and innovative research findings or review articles in the upcoming Special Issue “Oxidative Stress in Human Diseases.” We welcome clinical and pre-clinical studies of the relationship between OS and human diseases, novel diagnosis methods and mechanisms, as well as approaches for the prevention and treatment of diseases related to OS.





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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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