



Oxidative Stress in Chronic and Age-Related Diseases

Guest Editor:

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Message from the Guest Editor

The connection between oxidative stress and the main age-related diseases is an exciting field of research. Oxidative stress is involved in several age-related conditions (cardiovascular diseases, chronic kidney disease, neurodegenerative diseases, and cancer). This Issue will discuss pre-clinical and clinical evidence highlighting the central role of oxidative stress in the progression of select chronic diseases. We will focus on atherosclerosis, chronic liver diseases, and chronic hematologic diseases, in particular on clonal haematopoiesis. In addition, ageing is also part of our Special Issue, because common mechanisms are shared by both chronic diseases and ageing. There will be particular focus on oxidative stress, as well as on inflammation and endoplasmic reticulum (ER) stress. The pathways regulated by nuclear factor E2 related factor (Nrf2) and nuclear factor kappa B (NF- κ B), and related to the unfolded protein response (UPR) and ER stress are receiving increased attention as oxidative stress co-operators. I hope that this Issue will be a real eye-opener in the field of oxidative stress research in chronic and age-related diseases.





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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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