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Not Just Stress: The Role of Oxidation from Blood and Tissue Disorders to Homeostasis

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Deadline for manuscript submissions:
closed (15 September 2021)

Message from the Guest Editors

The issue we are proposing is focused on the description of novel findings related to oxidation in physiological conditions as well as source of pathological states and aging in different tissues, particularly in blood cells (erythrocytes, platelets, and leucocytes). Oxidation has been known as a marker of cellular stress for a long time. Nonetheless, studies on autoimmune diseases associated with chronic inflammation and characterized by a production of reactive oxygen species (ROS) will be considered for this issue. Although high ROS concentrations are toxic for cells, non-high concentrations of ROS levels are implicated in physiological signaling pathways such as cell growth, controlled cell death, and migration. Oxidants can act as second messengers in intracellular signaling and can potentially activate and control a multiplicity of functions in different cell types. Investigations on these issues will be considered as well. Moreover, this issue aims to open the opportunity to describe new outcomes in new studies on oxidation-related cellular and molecular events related to infections and endogenous sources (nanomaterials, radiations, small molecules, and immunotherapy).

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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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