



Cell Therapy and Redox Regulation in Diseases: Potential and Implications

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Message from the Guest Editors

In recent decades, diseases that affect different tissues, organs, or systems have found new treatment approaches derived from so-called cell therapies. Studies were initially restricted to basic experimentation (cellular and molecular) and pre-clinical assays using embryonic stem cells, mesenchymal cells (such as those from adipose tissue), bone-marrow mononuclear cells, and more recently, induced pluripotent cells. With the proliferation of successful clinical trials, a new field has emerged from the use of these cells—one that exploits the extracellular vesicles they secrete. Tissue redox alterations being one of the central features of highly prevalent acute and chronic diseases, the antioxidant potential of stem or related cells and the vesicles secreted by them has opened a new perspective: cell therapies that prevent, attenuate or cure redox anomalies. The main objective of this Special Issue of Antioxidants is to research the experimental models or treatments with cellular or acellular therapies in infectious and non-infectious diseases, acute or chronic diseases (including degenerative), and targeting mechanisms of repair for redox alterations.





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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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