

Special Issue

Oxidative Stress and Cell Senescence Process

Message from the Guest Editor

“Redox Homeostasis” indicates molecular mechanisms that constantly scavenge ROS/RNS molecules, providing cell equilibrium between their production and clearance/inactivation. Many research has evidenced a central role of oxidative stress in a number of physiopathological events, including telomere-independent cell senescence process. Cell senescence represents, at least early in life, a safety program to permanently arrest damaged cells but is a key contributor to aging and age-related diseases. The senescence process is sustained by a reprogrammed gene expression, involving transcriptional and post-transcriptional mechanisms as well as epigenetic regulatory events. This Special Issue aims to describe new redox-sensitive players and novel molecular pathways in boosting or delaying cell senescence. Even though exactly the opposite, both types of signaling could share essential factors/molecules whose activities could influence or be influenced by ROS/RNS levels. This will contribute to extend emerging evidence concerning the use of synthetic molecules for in vivo delivery or antioxidant supplementation with future therapeutic purposes.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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