



Glutathione in Health and Disease

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Message from the Guest Editors

Glutathione is a tripeptide with multiple properties. Not only is it the thiol buffer par excellence for the cellular environment, but it also plays the role of cofactor in many enzymatic reactions that are important for the detoxification of xenobiotics and for defense against oxidative stress. Glutathione is also the molecule utilized to perform both spontaneous and enzymatically induced S-glutathionylation. This post-translational modification is especially important in the regulation of specific metabolic pathways that can be induced/inhibited by intra- or extracellular signals. The GSH/GSSG ratio is modified in many conditions of cellular redox imbalance and has been seen to change in many human diseases, such as neurodegenerative disorders, ischemia/reperfusion injury or inflammatory diseases. In addition, glutathione is also involved in immune functions and in the antimicrobial and antiviral defense of cells. The aim of this Special Issue is to report on the current knowledge regarding the role of glutathione on metabolic pathways that are differentially regulated in specific conditions in health and disease.





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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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