



Thiol Redox Systems in Health and Disease

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Message from the Guest Editor

Thiol redox homeostasis is essential for the growth and development of living organisms, and is particularly important in protecting cells and tissues from oxidative stress. However, it is increasingly recognized that changes in the oxidation state of protein thiols is a significant mechanism for regulation of physiological, as well as pathological function.

This Special Issue will publish original research papers and review articles on a range of topics that relate to thiol redox homeostasis under normal and pathological conditions in mammalian systems. For example, the cysteine/cystine and oxidised and reduced glutathione redox pairs; thioredoxin/thioredoxin reductases; glutaredoxins, peroxiredoxins; glutathionylation; metabolic pathways that contribute to thiol redox homeostasis; thiol redox-sensitive enzymes; methods of detection of changes in thiol redox balance in mammalian cells; changes in thiol redox status in response to oxidative stress; the association between thiol redox status and disease in animals and humans.





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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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