Special Issue

Thiol, Redox Switch in Inflammation

Message from the Guest Editors

Inflammation is a complex immune response that is initiated to protect the body from harmful stimuli such as pathogens, toxins, or injuries. However, when inflammation becomes chronic and dysregulated, it can lead to tissue damage, organ dysfunction, and the development of various diseases including rheumatoid arthritis, inflammatory bowel disease, neurodegenerative disorders, etc. Under chronic inflammatory conditions, sustained activation of redox-sensitive pathways can lead to a continuous production of pro-inflammatory mediators, perpetuating the inflammatory response. Recently, thiol-dependent antioxidant systems, such as thioredoxin and glutathione/glutaredoxin systems, were found to act as a switch in chronic inflammation by modulating the redox state of proteins and enzymes involved in inflammatory signalling pathways. Therefore, therapeutic strategies that target thiol and redox regulation in chronic inflammation are being explored as potential treatments for inflammatory diseases. This Special Issue would bring together research articles, reviews, and original studies that investigate the role of redox signalling and thiol compounds in the inflammatory process.

Guest Editors

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Deadline for manuscript submissions

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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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