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Sulfide and Redox Regulation

Guest Editors:

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Deadline for manuscript submissions:
closed (30 April 2021)

Message from the Guest Editors

Sulfur compounds constitute the major players in cellular redox mechanisms across species from unicellular organisms to mammals. The scope of cellular processes regulated by sulfur-based chemistry is expanding with the recent findings and characterization of new sulfur species produced endogenously that were previously considered toxic or belonging to bacterial world. Mounting reports describe the role of sulfur metabolism in healthy and diseased states and maintenance of tissue homeostasis, which stimulated development of therapeutic approaches to treat diseases involving cardiovascular, neuronal, and immune systems as well as efforts to deliver sulfur species for treatment with multiple clinical trials already underway.

In this Special Issue, we welcome original research manuscripts and reviews spanning a range of topics from chemistry and metabolism of sulfur compounds to cell biology and physiology delineating sulfur-based mechanisms in redox regulation, characterization and the role of sulfur metabolites in biological processes and signaling events, diseases and animal model studies, pharmacological effects of sulfur metabolites and drug development.

mdpi.com/si/57444

Special Issue

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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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