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Reactive Sulfur Species in Biology and Medicine

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Message from the Guest Editors

Reactive sulfur species (RSS) are highly prevalent in biological systems, and emerging evidence shows that they likely have critical roles in several (patho)physiological processes. RSS have intriguing biochemical properties, such as the ability to modify protein cysteine residues and efficiently scavenge reactive oxygen species and electrophiles. Moreover, RSS donors have begun to demonstrate therapeutic potential in treating a wide range of disorders including cancer, neurological disorders, and cardiovascular disease. Nonetheless, the chemistry of RSS is complicated due to their reactive nature, and their accurate measurement in biological systems remains a challenge.

This Special Issue will focus on studies that highlight recent advances in RSS chemical biology, including original research articles and reviews aimed at understanding the molecular mechanisms and physiological roles of RSS, methods that unambiguously measure the concentration and distribution of RSS in biological systems, and potential therapeutic applications of RSS donors.



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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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