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H_2S in Redox Signaling

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2018)

Message from the Guest Editor

Hydrogen sulfide (H_2S) has emerged as a signaling molecule regulating various cellular and physiological processes important in health and disease. Recent findings shed light on its mechanism of action in cellular redox signaling and maintenance of redox homeostasis. A better understanding of H_2S role in cellular redox signaling pathways will move the field forward and provide opportunities for therapeutic efforts to treat diseases involving redox imbalance.

This Special Issue welcomes original research papers and reviews on all aspects of H_2S biochemistry and its role in cellular redox signaling in physiological and pathological processes. Special interests include:

mechanistic insight into H_2S-signaling including persulfidation, its interaction with transition metals, reactive oxygen and nitrogen species;

H_2S-induced regulation of mitochondrial energetics, ROS production, thiol redox homeostasis, and antioxidative systems;

mechanistic insight into H_2S-induced modulation of stress response pathways; and regulation of H_2S metabolism and tissue polysulfide pools.

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Editor-in-Chief

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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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