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# Modulation of Reactive Oxygen Species in Health and Disease

Guest Editor:

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Deadline for manuscript submissions:
**closed (31 August 2019)**

## Message from the Guest Editor

Reactive oxygen species (ROS) include radical (e.g., superoxide anion and hydroxyl radical) and non-radical (e.g., hydrogen peroxide and hypochlorous acid) oxygen-derived species that regulate numerous physiological processes. ROS play vital roles in signal transduction mechanisms and in the regulation of cellular processes, ranging from cell viability/proliferation to cell death. Not surprisingly, high levels of ROS in biological systems, resulting from either their excessive production and/or a weak antioxidant defences, could lead to the development of pathological conditions, such as diabetes, obesity, and chronic inflammatory, cardiovascular and neurodegenerative diseases. Hence, there is a growing awareness that ROS modulation through various pharmacological and other approaches could be employed to alter normal cellular physiology and/or pathologies.

This Special Issue is dedicated to providing more insight into recent developments in the field. We welcome original and review article contributions on mechanisms of ROS modulation in health and disease. Novel therapeutic intervention approaches targeting ROS formation or elimination are also welcome.

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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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