

Special Issue

The Role of Peroxiredoxins in Antioxidant Defense and Redox Signaling

Message from the Guest Editor

Peroxiredoxins have emerged as key players in multiple facets of antioxidant protection and redox signaling, with important implications for human health. Recent research has highlighted their roles in a wide range of physiological and pathological processes, such as tumor progression and resistance, inflammation, aging, apoptosis, circadian metabolic rhythmicity, mitosis, spindle assembly, and DNA replication fidelity. However, numerous questions about their mechanisms of action and how these relate to structural features remain open. This Special Issue will welcome reviews and original research articles addressing these and other exciting questions regarding peroxiredoxin's structural, biophysical, and kinetic properties, novel specific inhibitors and research methods, their mechanisms of action in vivo, and their role in human health.

Guest Editor

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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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