

Special Issue

Heme Proteins and Signaling in Redox Biology

Message from the Guest Editor

This Special Issue, titled “Heme Proteins and Signaling in Redox Biology”, aims to bring together contributions presented at the 22nd International Conference on Oxygen Binding and Sensing Proteins, held at the University of Essex, Colchester, UK, from 26th–29th August 2025. Members of the globin superfamily, along with other heme-containing proteins, serve as key mediators across diverse biological systems, coupling ligand binding and redox chemistry to essential functions in respiration, metabolism, stress adaptation, and cellular signaling. This Special Issue will highlight recent advances in our understanding of heme-containing proteins and their central roles in redox-regulated processes, gasotransmitter signaling, cellular communication, and oxygen transport and sensing.

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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