

Special Issue

Targeting Oxidative Stress in Ischemia/Reperfusion Injury

Message from the Guest Editor

Ischemia/reperfusion (I/R) injury is a critical pathological process that occurs across a broad spectrum of clinical scenarios, including myocardial infarction, stroke, organ transplantation, and major trauma. The sudden restoration of blood flow to ischemic tissues triggers an excessive generation of reactive oxygen species (ROS), initiating a complex cascade of redox-dependent signaling pathways. This oxidative burst plays a central role in causing cellular injury, inflammation, immune dysregulation, and ultimately, organ dysfunction. This Special Issue aims to highlight recent advances in elucidating the role of oxidative stress in the pathophysiology of I/R injury. We welcome original research and reviews that explore novel redox-regulated molecular and cellular mechanisms, innovative antioxidant-based therapeutic strategies, and translational insights from both preclinical models and clinical investigations.

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.

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