



Antioxidant Agents for the Prevention and Therapy of Oxidative Stress in Hepatic Diseases

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Message from the Guest Editors

Oxidative stress has been implicated in diverse pathological mechanisms, and may contribute to the initiation and progression of liver injury. Risk factors including drugs and alcohol, environmental pollutants and irradiation, and exposure to viruses and bacteria may generate ROS. This results in severe hepatic diseases. Increased ROS production is also involved in ischemia-reperfusion injury pathology. IRI is an inherent syndrome associated with liver surgery and organ transplantation where deleterious injury is due to ischemia and reperfusion.

Antioxidant therapy would mean a rational healing strategy in the treatment of liver diseases that involve ROS production. For potential new therapeutic targets, more emphasis should be placed on deeper mechanistic investigations of hepatic ischemia-reperfusion injury and on translational research to refine current strategies in the use of antioxidants.

This Special Issue calls for original research and full reviews that address the progress and current knowledge on the mechanism of ROS-mediated liver injury, therapeutic strategies, and the protective role of antioxidants.





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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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