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Role of Oxidative Stress in Mitochondrial Function: Relevance for Liver Function

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Message from the Guest Editor

Mitochondria are recognized as key regulators of cellular function. One of the main culprits in mitochondrial dysfunction is the formation of oxidative species, which if prolonged, results in the overwhelming of intracellular defenses and thus results in oxidized mitochondrial components, causing the aforementioned dysfunction. Given its various roles in the organism, the liver heavily relies on mitochondrial oxidative phosphorylation to generate the vast amounts of ATP it requires for its daily needs, let alone when a hepatic insult is presented. As such, numerous research groups throughout the world have elected to investigate the role of oxidative stress in hepatic mitochondrial dysfunction, as well as identifying strategies and compounds that can preserve or restore mitochondrial and, concomitantly, organ function.

This Special Issue on the role of oxidative stress in hepatic mitochondrial function will publish work (both research work and review papers) on a broad range of research topics, ranging from pure toxicological events to metabolic diseases, surgical interventions, or strategic paradigms for transplantation, to name a few examples.

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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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