Special Issue

Heme Oxygenase (HO)-1 as an Immunoregulator in Health and Disease

Message from the Guest Editors

The current issue focuses on the role of heme oxygenase (HO)-1 as an immunoregulatory molecule. HO-1 is a well-established cytoprotective enzyme mainly through the enzymatic conversion of heme into by-products, biliverdin, bilirubin and carbon monoxide (CO), which have been shown to have strong anti-apoptotic and antioxidant properties. However, HO-1 also regulates responses to injury via mechanisms that are independent of production of heme degradation products. Key among these responses is immune regulation including effects on innate immunity, adaptive immunity and complement activation. Understanding mechanisms of immune regulation by HO-1 could lead to novel therapeutic strategies in various forms of immune-mediated injury and autoimmune diseases, cancer and transplantation. This Special Issue aims to provide an update of current knowledge on HO-1 as an immunomodulatory molecule and to serve as a detailed, analytical and up-to-date guide on this specific subject.

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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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