Special Issue

Heme Oxygenase-A Balancing Act Between Cytoprotective and Pathophysiological Cascades

Message from the Guest Editors

Heme oxygenase (HO) is the rate-limiting enzyme in the oxidative degradation of heme, generating biliverdin (BV), carbon monoxide (CO), and iron, while consuming oxygen. Apart from its role as a principal component in the cellular heme/iron homeostasis, HO performs various other cellular processes, which differ among HO families. The function of HO-1 and HO-2, the two catalytically active isoforms of HO in mammals, has been extensively studied. This Special Issue will publish research papers or reviews presenting new findings or concepts on the role of HO and its reaction products in modulating cellular/tissue functions in health and disease. Suitable topics include (but are not limited to) the following: structure and function and regulation of HO and its products, the role of HO and its products in cell metabolism, signalling, cell cycle, epigenetic regulation, repair function, and the control of oxidative stress.

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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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