



Heme Oxygenase in Physiology and Pathology

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Message from the Guest Editor

Recent findings show that HO may exert functions not related to its enzymatic activity, such as the formation of protein–protein interactions and involvement in signaling events. Dysregulated HO may unfold unfavorable effects and contribute to tissue injury, neurodegeneration, and carcinogenesis. Therefore, therapeutic approaches targeting the HO system are promising strategies to restore homeostasis and to support tissue repair. However, many questions related to the different roles of HO isoforms and to the newly discovered functions of isoform in physiology and pathology still remain open.

This Special Issue invites new methodological approaches, research papers, or reviews that present new findings or concepts on the roles and functions of HO enzymes and their reaction products in animal and plant physiology. Suitable topics include (but are not limited to): structure, function, and regulation of HO in different species; the role of HO and its products in physiological and pathological conditions modulating cell metabolism, signaling, and cell cycle; epigenetic regulation; repair function; and the control of oxidative stress.





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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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