



Pharmacological and Clinical Significance of Heme Oxygenase-1

Guest Editors:

Dr. David E. Stec

Center for Excellence in
Cardiovascular-Renal Research,
Department of Physiology &
Biophysics, University of
Mississippi Medical Center, 2500
North State St., Jackson, MS
392161, USA

Prof. Dr. Nader G. Abraham

1. Department of Pharmacology,
New York Medical College,
Valhalla, NY, USA
2. Department of Medicine, New
York Medical College, Valhalla,
NY, USA
3. Department of Internal
Medicine, Joan C. Edwards
School of Medicine, Marshall
University, Huntington, WV, USA

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Message from the Guest Editors

The HO-1 system has been found to be crucial in cellular defense for numerous diseases, including diabetes, hypertension, heart diseases, inflammation, transplantation, neurodegenerative and ageing processes, and metabolic syndrome. This Special Issue is designed to re-examine HO-1's function in physiological and metabolic diseases and its clinical significance. HO-1 is now recognized to play a role in diverse metabolic, physiological, and pathological circumstances. The increase in the number of citations in PubMed (36,596 articles) alone attests to the importance of the HO-1 and its products, CO and bilirubin, within the research community.

The Special Issue will collate and update much of the current knowledge relevant to pharmacology and clinical medicine concerning the enzyme heme oxygenase-1 (HO-1), which catabolizes the breakdown of the oxygen-carrying respiratory pigment called heme. In this process, heme is converted to the bile pigment, bilirubin; carbon monoxide is generated; and the iron atom is released.





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Editor-in-Chief

**Prof. Dr. Alessandra
Napolitano**

Department of Chemical
Sciences, University of Naples
"Federico II", Via Cintia 4, I-80126
Naples, Italy

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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Antioxidants Editorial Office
MDPI, St. Alban-Anlage 66
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