



Cellular and Molecular Mechanisms in Oxidative Stress-Related Diseases

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Message from the Guest Editors

Oxidative stress (OS) is frequently described as the balance between production of reactive species (RS), including oxygen and nitrogen, in biological systems and the ability of the latter to defend through the sophisticated antioxidant machinery. At physiological levels, some oxidants in controlled amounts, possess an important signaling functions within the cell. Oxidative products are highly reactive, and can directly or indirectly modulate the functions of many enzymes and transcription factors through a complex signaling cascades.

The aim of this special issue is to collect and contribute to the dissemination of high quality research articles, as well as review articles, focusing on the relationship between oxidative stress-related diseases and cellular responses in different pathologies, including ischemic stroke, diabetes, kidney disease, cardiovascular and neurodegenerative diseases. In addition, molecular targets of cellular membrane, as well as their potential modulation under oxidative stress will be also considered, in an attempt to provide more information about cell response to oxidative stress and its possible modulation by novel pharmacological strategies.





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Message from the Editor-in-Chief

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