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Oxidative Stress and Inflammation in Metabolic Syndrome

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Message from the Guest Editors

Metabolic syndrome (MS) is a widespread pathologic state that manifests as multiple interrelated diseases of metabolic origin affecting the entire body, including visceral obesity, dyslipidemia, hypertension, glucose intolerance, insulin resistance, type 2 diabetes, and peripheral vascular disease. Although the causes of MS are largely dietary in origin, the consequences of its metabolic disruption cannot be solely attributed to insulin resistance, the more direct result of dietary factors. Reactive oxygen species play a direct role in adipogenesis, and oxidative stress modulates the factors involved in MS pathologies. Therefore, modulating inflammation and oxidative stress is a commonly explored strategy to prevent MS-associated comorbidities. This Special Issue aims to cover the role of inflammation and oxidative stress in the pathogenesis of MS and any therapeutic, dietary, or lifestyle strategy aiming to control or reverse these situations of chronic low-grade inflammation and oxidative stress in MS patients. To reach this goal, in vitro, animal, and human studies are welcomed.

Deadline for manuscript submissions:

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Special Issue



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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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