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Redox Regulation of Metabolic Syndrome: From Biochemical Mechanisms to Nutritional Interventions

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Message from the Guest Editor

Metabolic syndrome (MetS) is a pathophysiological state associated with a cluster of interrelated factors, including abdominal obesity, insulin resistance, dysglycemia, hypertension, and dyslipidemia. Over the last few decades, a striking increase in the number of people affected by MetS has taken place worldwide. According to literature, finely-tuned, redox-dependent signal transduction mechanisms underlie and control metabolic dysregulations. Moreover, low-grade systemic inflammation is usually associated with such endocellular, redox dysfunctions and eventually leads to a dysfunctional metabolic rewiring.

Nutrition is one of the most important modifiable factors affecting human health, and appropriate dietary patterns have been demonstrated to effectively counteract the immunometabolic alterations leading to MetS development.

Contributions are invited from investigators worldwide, in the form of reviews or original research articles on both redox-dependent, biochemical mechanisms underlying MetS and nutritional studies aiming to analyze the effects of diet on such a common metabolic disorder.



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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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