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Type 2 Diabetes and Oxidative Stress and Inflammation: Pathophysiological Mechanisms and Possible Therapeutic Options

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editors

Type 2 diabetes is the most common chronic metabolic disease. There is strong evidence of interrelationships between oxidative stress and inflammation and molecular and cellular events related to T2D onset, progression, and complications. However, the terms “oxidative stress” and “inflammation” imply a number of different molecular and cellular pathways. Moreover, the significance of a given biomarker might not be the same in the different stages of the disease. Thus, the identification of additional pathways/biomarkers involved in T2D pathophysiology might provide new insights into the onset and development of the disease and its complications, favoring the characterization of new targeted therapeutic approaches for more focused personalized medicine.

In this scenario, additional integrative antioxidant compounds could act as coadjuvants to traditional pharmacological tools, providing more potential therapeutic benefits for the treatment of T2D.

We invite contributions in the form of both original articles and review manuscripts focusing on the study of oxidative/inflammatory-related mechanisms involved in T2D pathophysiology.

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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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