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Mitochondrial Dysfunction and Oxidative Stress in Diabetes and Associated Diseases

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Message from the Guest Editor

Diabetes is a chronic metabolic disorder that stems from the fallout from a complex interplay between genetic predisposition and environmental factors. Presently, the WHO recognizes three major forms of diabetes: type 1 diabetes type 2 diabetes, and gestational diabetes. Despite different etiologies, defects in mitochondrial function and oxidative stress are a common denominator among all forms. Thus, studies addressing whether and how changes in mitochondrial metabolism influence the development of diabetes and its associated complications are of great interest.

We invite you to submit your latest research findings or a review to this Special Issue, which will bring together current research concerning mitochondrial and oxidative stress roles in boosting the incidence of diabetes and its associated complications. This research can include both in vitro and in vivo studies relating to mitochondrial alterations and oxidative stress in any of the following topics: inflammation, obesity, vascular alterations, gender susceptibility, lifestyle, maternally inherit defects, and microbiota regulation of microbiota function, among others.



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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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