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Mitochondrial Dysfunction and Oxidative Stress in Aging and Disease

Guest Editor:

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Message from the Guest Editor

Mitochondria are considered to have a significant influence on aging due to their critical role in the regulation of bioenergetics, oxidative stress, and cell death. Mitochondrial oxidative stress, commonly associated with age-related pathologies (neurodegenerative syndromes, cardiovascular diseases, endocrine pathologies, diabetes, and cancer), leads to damage to mitochondrial DNA, proteins, and lipids. The increased ROS presence can also induce chronic inflammation, which often characterizes age-related diseases and autoimmune pathologies. Therefore, it is important to understand the molecular mechanisms available and new, and how these mechanisms affect the antioxidant process. In particular, how they protect cells and organs from the harmful effects of free radicals to achieve goals and get rid of disease. In particular, how they protect cells and organs from the harmful effects of free radicals for disease treatment. This is why a better understanding of mitochondrial dysfunction and oxidative stress will lead to new treatments to prevent or improve age-related degenerative diseases.

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Message from the Editor-in-Chief

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