



Research on Mitochondria and Cell Death in Disease Diagnosis and Treatment

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Message from the Guest Editor

Dear Colleagues,

Mitochondria are essential organelles for many aspects of cellular homeostasis. Mitochondrial metabolism links energy production with other important cellular processes, such as signal transduction, cell differentiation, and apoptosis. In addition to mitochondria are responsible for the synthesis of many important metabolites and cofactors. In addition, mitochondria and their metabolism are involved in aging and a number of human diseases. Diseases defined by mitochondrial dysfunction have expanded from rare monogenic disorders to metabolic, cardiovascular, neurodegenerative and neuromuscular diseases.

This Special Issue will discuss the molecular mechanisms that regulate mitochondria at multiple levels, as well as their role in the pathophysiology of diseases and the development of new therapeutic strategies. Topics of interest include, but are not limited to, the following: diagnosis and treatment of mitochondrial dysfunctions, reactive oxygen specifications, oxidative stress, lipid peroxidation, mitochondrial dynamics, mitophagy, mitochondrial biogenesis, apoptosis and diseases related to mitochondrial dysfunction.





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Message from the Editor-in-Chief

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