International Journal of
Molecular Sciences

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New Advances in Molecular Research on Impaired Mitochondrial Metabolism in Disease

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Deadline for manuscript submissions:
closed (7 July 2024)

Message from the Guest Editor

Mitochondrial metabolism is central to the generation of the chemical energy required to power biochemical functions within the cell, in addition to providing the building blocks necessary for the synthesis of macromolecules. Furthermore, mitochondria are also central mediators of cellular signalling, apoptosis and the maintenance of calcium homeostasis.

Given the many important roles of the mitochondria for normal cellular function, it is not surprising that mitochondrial dysfunction has been associated with a wide variety of diseases, which can arise from either genetic defects in nuclear or mitochondrial DNA (nDNA and mtDNA, respectively) affecting core mitochondrial components, known as primary mitochondrial disorders, or as the result of malfunctioning pathways or the secondary consequences of disease pathophysiology, known as secondary mitochondrial disorders.

The purpose of this Special Issue is to provide up-to-date information on new developments and methods available to elucidate evidence of impaired mitochondrial metabolism in disease.

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Message from the Editor-in-Chief

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