



## Primary Mitochondrial Diseases and Secondary Mitochondrial Dysfunction: New Insights and Therapies

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### Message from the Guest Editor

New developments in the field of genetic methodology and molecular techniques have allowed us to recognize mitochondrial disorders as more complex and multifactorial than originally thought.

Beyond the disorders recognized as mitochondrial diseases, abnormalities in the ultrastructure and function of mitochondria in cells have been revealed in a number of unrelated pathologies. In addition, multiple lines of evidence have suggested mitochondrial dysfunction as a mechanism for pharmaceutical-drug-induced toxicity in the heart, brain, liver, and other organs and tissues. The accumulated knowledge in these areas requires research aimed at clarifying open questions.

This Special Issue is focused on the molecular and cellular mechanisms leading to mitochondrial disorders, with particular attention to molecules involved in the regulation of mitochondrial dynamics, biogenesis, and mitophagy. Additionally, research papers and review articles exploring the effects of mitochondrial therapy on cell pathologies will also be included.





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