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## Mitochondrial Bioenergetics: From Cellular Metabolism to Therapeutic Target

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### Message from the Guest Editor

This Special Issue will primarily focus on mitochondrial biology and bioenergetic function, which are implicated in the homeostasis of cellular metabolism and chronic disease pathogenesis. The discoveries and developments stemming from these studies will be extended to provide future research directions for disease treatment strategies. Mitochondria play a vital role in many biological systems that significantly adjust ATP synthase, adapt to cellular stress or lead to multiple diseases. Furthermore, the complex mitochondrial bioenergetic machinery correlates with the oxidative phosphorylation system (OXPHOS), which displays high flexibility to allow the remodeling of mitochondrial capacity to fulfill cellular elements. With the improvement of next-generation sequencing instruments and the advancement of bioinformatic analysis, there has been a great deal of emerging evidence of chronic diseases representing mitochondrial metabolism, ultrastructural integrity, microbiota metabolites targeting mitochondria, tRNA relative congenital disease, etc.



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# Special Issue



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## Message from the Editor-in-Chief

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