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Mitochondrial Dysfunctions and Metabolisms

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Over the last 30 years, significant advances have been achieved towards the elucidation of the mechanistic aspects of mitochondrial diseases, a heterogeneous group of inherited metabolic disorders characterized by defective ATP production through oxidative phosphorylation. They are caused by mutations in both mitochondrial- and nuclear-gene-encoding proteins with a wide variety of functions, ranging from structural subunits and/or assembly factors of respiratory complexes to biosynthesis of prosthetic groups, clearance of toxic compounds, protein quality control and degradation, mitochondrial fusion and fission, and several others. It is therefore not surprising that mitochondrial diseases have an impact, either directly or indirectly, on the overall metabolism, especially in high-energy-demanding cells, such as neurons and cardiomyocytes.

This Special Issue is calling for both original articles and reviews providing insights into the molecular mechanisms leading to metabolic dysfunctions afflicting patients with mitochondrial disorders, and into pharmacological strategies to fight them.

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Message from the Editor-in-Chief

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