

## Special Issue

# New Advances in Molecular Research on Impaired Mitochondrial Metabolism in Disease

### 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.

### Guest Editor

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### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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