Special Issue

Mitochondrial Dysfunction: A Metabolic, Cardiovascular, Neurodegenerative and Neuromuscular Issue

Message from the Guest Editors

Mitochondrial diseases are a large group of genetically determined multisystem disorders, characterized by extreme phenotypic heterogeneity, attributable in part to the dual genomic control of the mitochondrial proteome. The correct use of biochemical and histology testing, in combination with imaging studies, has proved helpful in genotype-phenotype correlations. However, new therapeutic research approaches are improving our knowledge in the functions of mitochondrial genes, their expression pattern, features of gene defects or risk of transmission. This Special Issue focuses on mitochondrial dysfunction in neurodegenerative and cardiovascular diseases, aging, cancer and signaling pathways leading to mitochondrial biogenesis and mitophagy. We will welcome original research articles, comprehensive reviews and novel communications dealing with the molecular pathways underlying the role of mitochondria in disease mechanisms or expanding genotype-phenotype correlations.

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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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