

Special Issue

Oxidative Stress and Mitochondria in Human Diseases

Message from the Guest Editor

Mitochondrial dysfunction, associated with a higher production of reactive oxygen species, is implicated in various human conditions, such as cardiovascular diseases, metabolic syndromes, neurodegenerative diseases, and skeletal muscle diseases. The imbalance between fusion and fission processes, alterations of the interaction with lipid droplets, and metabolic impairments produced by ferroptosis processes are some of the novel molecular mechanisms involved in mitochondrial dysfunction. This special issue aims to gather cutting-edge research and comprehensive reviews addressing related topics, such as mitochondrial dysfunction and oxidative stress biomarkers, interventions to recover mitochondrial dynamics, and molecular mechanisms associated with mitochondrial biogenesis.

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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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