

Special Issue

Mitochondrial Functions and Dynamics

Message from the Guest Editor

It has become increasingly evident that mitochondria play a role far beyond their traditional designation as the powerhouses of the cell. Indeed, mitochondria serve as the second most important calcium reservoir in cells, capable of exchanging calcium with the endoplasmic reticulum. Mitochondria are involved in oxidative stress, redox regulation, apoptosis, and aging. They integrate intracellular signals, contributing to the coordination of cellular functions. Recent studies have highlighted that mitochondria can be exchanged between different cell types and can even be found circulating in the bloodstream. We invite authors to submit articles on recent findings regarding the biochemical and molecular mechanisms of mitochondrial functions. Topics include mitochondrial biogenesis, bioenergetics, apoptosis, mitophagy, reactive oxygen species, calcium homeostasis, interactions with other organelles, and the link between mitochondrial dysfunction and cellular pathophysiology. Computational studies are also welcome.

Guest Editor

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Deadline for manuscript submissions

27 November 2026



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/239563

*International Journal of
Molecular Sciences*
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