

Special Issue

The Powerhouse: Mitochondria in Health and Disease

Message from the Guest Editor

With each passing year, greater understanding of the complex regulatory points within the mammalian cell offers opportunities to improve various human health issues via targeted therapies with the potential to prevent medical problems. Alterations in mitochondrial function are closely linked to the development of various diseases and are known to modulate targeted therapies. In this Special Issue, medical researchers are invited to submit high-quality original research articles related to mitochondrial functions in health and disease.

Health-related papers exploring mitochondrial dysfunction and the signaling pathways associated with mitochondrial energetics, dynamics, biogenesis, mitophagy, reactive oxygen species generation, and metabolic events are especially welcomed. In particular, manuscripts reporting on mitochondria-targeted therapies highlighting the significance of mitochondria in disease processes and therapies of multiple systems. These continued research efforts will likely provide a basis for refining the integration of multiple aspects of mitochondrial function in order to move closer to a precision medicine approach for the diagnosis and management of diseases.

Guest Editor

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Deadline for manuscript submissions

closed (20 May 2025)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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Message from the Editor-in-Chief

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