Special Issue

Mitochondrial Biology and Pathophysiology

Message from the Guest Editors

Mitochondria are highly dynamic and responsive organelles that regulate a variety of cellular functions and dictate cell fate. They play pivotal roles in orchestrating cellular signaling and differentiation, as well as in regulating oxidative stress, redox pathways, metabolism, aging, cell death, and immunomodulation. Hence, mitochondrial dysfunction is associated with many pathological conditions, such as cancer, cardiovascular diseases, metabolic syndrome, neurodegenerative diseases, and age-related disorders. Therefore, mitochondria are considered to be important therapeutic targets for these highly prevalent pathologies. However, the molecular mechanisms associated with the pathogenic progression of mitochondrial dysfunction remain to unidentified. This Special Issue will focus on mitochondrial biology and pathophysiology and aims to collect original research articles or review articles from scholars in the field. We look forward to receiving your manuscripts.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).