Special Issue

Mitochondria in Cancer Immune Evasion and Immunotherapy

Message from the Guest Editors

Mitochondria are essential metabolic, biosynthetic and signaling hubs regulating cell proliferation, differentiation and apoptosis. In addition to being the powerhouse of the cell, mitochondria represent the powerhouse of immunity as they support development, differentiation and metabolic plasticity of immune cells. The mitochondrial dynamics (fusion/fission), genome (mtDNA) and metabolism are altered in the cells within the tumor microenvironment and these changes contribute to fostering immune tolerance and cancer immune evasion. The intercellular transfer of mitochondria within the tumor microenvironment adds a further layer of complexity to the mechanisms driving cancer immune evasion. The aim of this Special Issue is to explore mitochondria-related mechanisms of cancer immune evasion and immune tolerance, and applications in cancer immunotherapy.

Guest Editors

Dr. Loredana Moro

Memorial Sloan-Kettering Cancer Center, New York, NY, USA

Dr. Flora Guerra

Department of Biological and Environmental Sciences and Technologies, University of Salento, Via Provinciale Lecce-Monteroni n.165, 73100 Lecce, Italy

Deadline for manuscript submissions

30 July 2026

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/260422

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/journal/cells

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.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch
Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

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).