



## Mitochondria and Immunometabolism in Cancer

Guest Editors:

**Dr. Simona Todisco**

Department of Sciences,  
University of Basilicata, Potenza,  
Italy

**Dr. Santarsiero Anna**

Department of Science,  
University of Basilicata, Potenza,  
Italy

**Dr. Paolo Convertini**

Department of Science,  
University of Basilicata, Potenza,  
Italy

Deadline for manuscript  
submissions:

**30 September 2024**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue, titled “Mitochondria and Immunometabolism in Cancer”, will focus on the role of mitochondria and their metabolic function in the crosstalk between cancer and immune cells.

A new perspective on the survival of cancer cells and the mechanisms underlying tumor progression has recently involved tumor microenvironmental cells. The hallmark of both cancer and activated immune cells is metabolic reprogramming, which depends on gene expression regulation in response to the rise in energetic demands and the need for specific metabolites. A focal point of these metabolic changes is the mitochondrial metabolism supplying energy and metabolites necessary for cell growth.

In this context, it is crucial to comprehend the relationship between cancer and microenvironmental cells, providing a new possible strategy for immunotreatments of cancer. We invite researchers to contribute to this Special Issue with original research or review articles focusing on mitochondrial metabolism, bioenergetics, mitochondrial signaling and immunometabolism in cancer.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Felipe Fregni

1. Neuromodulation Center and  
Center for Clinical Research

Learning, Spaulding  
Rehabilitation Hospital and  
Massachusetts General Hospital,  
Harvard Medical School, Boston,  
MA 02114, USA

2. Department of Epidemiology,  
Harvard T.H. Chan School of  
Public Health, Boston, MA 02115,  
USA

## Message from the Editor-in-Chief

*Biomedicines* (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPUS / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q2 (*Medicine (miscellaneous)*)

## Contact Us

*Biomedicines* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/biomedicines](http://mdpi.com/journal/biomedicines)  
[biomedicines@mdpi.com](mailto:biomedicines@mdpi.com)  
[X@Biomed\\_MDPI](#)