

Special Issue

Mitochondria and Immunometabolism in Cancer

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2025)



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About the Journal

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.

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