

Metabolic Alterations in Cancer

Guest Editor:

Dr. Paola Tucci

Department of Pharmacy, Health
and Nutritional Sciences,
University of Calabria, 87036
Arcavacata di Rende (CS), Italy

Deadline for manuscript
submissions:

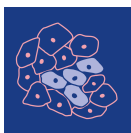
closed (31 December 2023)

Message from the Guest Editor

Cancer metabolism is an essential aspect of tumorigenesis, as alterations in the cellular metabolism pathway are evident in cancer cells compared with most normal tissue cells. Metabolic alterations include aerobic glycolysis, reduced oxidative phosphorylation and increased biosynthesis of macromolecules needed to accommodate tumor cells' increased energy requirements in comparison to normal cells. Thus, metabolism is a critical driver of cancer malignancy and affects most, if not all, aspects of tumor biology, from cancer cell growth, proliferation and invasion to metastasis and drug resistance. Mutations or alterations in the cancer cells themselves can drive these metabolic changes, but the metabolism of the patient also plays an important role. For example, we know that the metabolic changes that occur in response to obesity help to support the development of many types of cancer.

Understanding how metabolism influences the behavior of cancer cells could support the development of new antitumoral strategies and drugs targeting metabolic pathways to deprive cancer cells of the biochemical resources they have come to depend on.





cancers



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Samuel C. Mok

Department of Gynecologic
Oncology and Reproductive
Medicine, The University of Texas
MD Anderson Cancer Center,
Houston, TX 77030, USA

Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

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, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Oncology*) / CiteScore - Q1 (*Oncology*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/cancers
cancers@mdpi.com
X@Cancers_MDPI