Special Issue

Arginine and Cancers: Molecular Mechanisms and Anticancer Therapy

Message from the Guest Editor

Arginine is a semi-essential amino acid that plays a central role in physiological cell homeostasis, but also in cancer metabolism and immune regulation. Several tumors have high demands of exogenous nutrients, including arginine, as a consequence of deficiencies in enzymes for its production. The development of arginine-depleting therapies took advantage of this vulnerability to inhibit tumor growth. However, several studies showed that arginine also regulates immune responses by modulating T-cell activation and macrophage polarization, thereby affecting the efficacy of immunotherapy. The dual role of arginine in tumor biology highlights the need for a deeper understanding of tumor metabolism and immune interactions to refine arginine-targeted strategies based on metabolic profiling.

Guest Editor

Dr. Maria Francesca Baietti

TRACE, Department of Oncology, KU Leuven, Herestraat 49, 3000 Leuven, Belgium

Deadline for manuscript submissions

30 June 2026

Cancers

an Open Access Journal by MDPI

Impact Factor 4.4
CiteScore 8.8
Indexed in PubMed

mdpi.com/si/237317

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

mdpi.com/journal/cancers

Cancers

an Open Access Journal by MDPI

Impact Factor 4.4
CiteScore 8.8
Indexed in PubMed

mdpi.com/journal/cancers

MDPI

About the Journal

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.

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

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)