cancers

an Open Access Journal by MDPI

IMPACT FACTOR 4.5

Indexed in: PubMed

CITESCORE 8.0

Mechanisms of the cGAS-STING Pathway and Their Potential as Novel Targets for Immuno-Oncology

Guest Editor:

Dr. Dong Zhang
Department of Biomedical Sciences, College of Osteopathic Medicine, New York Institute of Technology, Old Westbury, NY 11568, USA

Deadline for manuscript submissions:
closed (10 March 2024)

Message from the Guest Editor

Immuno-oncology (IO) has revolutionized cancer therapy in the last decade. The IO strategies currently approved by the FDA include the use of immune checkpoint inhibitors and chimeric antigen receptor (CAR) T cells. Recent studies have established a strong connection between DNA damage response/DNA repair and IO, for the following reasons. First, certain DNA damage response/DNA repair-related molecular and genetic features manifested by tumors, including elevated mutational burden, microsatellite instability (MSI), and mismatch repair deficiency (dMMR), have been used as biomarkers for immuno-oncology. Second, when unrepaired DNA fragments are released into cytosol, they induce the innate immune response through the activation of the cGAS-STING pathway. Third, at present, the agonists of the cGAS-STING pathway are being actively exploited as a novel form of immuno-oncology therapy.

The major aims of this Special Issue are:

(1) to elucidate the molecular mechanisms of how damaged DNA activates the cGAS-STING pathway;

(2) to target the cGAS-STING pathway as a novel immuno-oncology strategy.

I look forward to receiving your contributions.

cancers

IMPACT FACTOR 4.5 | Indexed in: PubMed | CITESCORE 8.0

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 - Q1 (Oncology) / CiteScore - Q1 (Oncology)

Contact Us

Cancers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

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