Special Issue

Cancers Hijack Immune Surveillance and Tumor Microenvironment Leading to Immune Evasion

Message from the Guest Editors

Tumors employ various mechanisms to evade or counteract attack by immune response components. Some of these mechanisms involve changes in the manifestation of tumor cells, others modulate the immune cells directly, and some affect the tumor microenvironment. The following are examples of such mechanisms:

- Changes in tumor cells can include the loss of antigens, the loss of HLA components, and danger signals; alterations in the expression of immunomodulatory ligands on the cancer cell surface; defects in damage-associated molecular pattern (DAMP).
- Direct modulation of immune cells includes a reduction in pro-inflammatory cytokine signaling and inhibition of the recruitment of immune components to inhibit anti-cancer immune attack; the release of factors that dampen the function of immune cells, and promotion of the activity of immunosuppressive cells.
- Mechanisms that affect the tumor microenvironment include metabolic reprogramming, which may cause alterations in the cancer cell cytokine and metabolite secretion.

Prof. Dr. Yona K. Keisari

Guest Editors

Prof. Dr. Yona Keisari
Prof. Dr. Viktor Umansky
Prof. Dr. Rostyslav Bilyy

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

mdpi.com/journal/cancers

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Message from the Editor-in-Chief

Cancers (ISSN 2072-6694) is an international, online journal addressing both clinical and basic science issues related to cancer research. The journal will continue its 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

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