Special Issue

Molecular Mechanisms of Cancer: Focus on Metabolism and Microenvironment

Message from the Guest Editor

The impact of cancer cells on their environment (both locally and distantly) is known to promote malignancy and chemoresistance. Interactions between transformed and non-malignant cells represent the tumor microenvironment (TME). Intercellular communication is driven by a complex and dynamic metabolism. Moreover, metabolism is a hallmark of cancer and a critical target for cancer therapy. Cancer metabolism is regulated by the autonomous mechanism of the cell as well as metabolite availability in the TME.

Understanding the interactions between the cancer cell and environmental metabolism will be critical for combining metabolism-targeted therapies with chemotherapies. Cancer also causes alterations in whole-body metabolism that may influence tumor-nutrient availability. Modulating the amino acid composition of the diet can slow cancer growth, and investigation into how diet affects tumor growth remains an underexplored area.

Different studies suggest that targeting the metabolism involved in the communication between the non-malignant cells and the malignant cells could be a new treatment option.

Guest Editor

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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

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