

Special Issue

Spatio-Temporal Changes in the Tumor Microenvironment: Focus on Hypoxia, Acidosis and Metabolism

Message from the Guest Editors

A tumor is made up of cancer cells and a heterogeneous collection of infiltrating and resident host cells, extracellular matrices and secreted factors. Today, hypoxia and acidosis are recognized as two major hallmarks of the tumor microenvironment (TME). Areas of low O₂ and low pH develop in tumors because of the heterogeneous perfusion and metabolic preferences of the different constituent cell populations. Spatial alteration is the most common picture seen in these TME components. Temporal fluctuations are less widely described. Circadian rhythms are actually rarely associated with TME. However, tumor metabolism is inevitably influenced by fluctuations in the availability of nutrients and even circulating hormones. Spatiotemporal fluctuations in tumor metabolism thus further emphasize that TME is a key player in tumor growth. In this Special Issue of *Cancers*, we welcome original research articles and review articles focusing on spatial specificities and time-dependent oscillations in cellular phenotypes and metabolic preferences within TME and how these parameters may offer a new framework for the discovery of innovative anticancer strategies.

Guest Editors

Prof. Dr. Olivier Feron

Institut de Recherche Expérimentale et Clinique (IREC), Université Catholique de Louvain, 1200 Brussels, Belgium

Dr. Léo Aubert

Institut de Recherche Expérimentale et Clinique (IREC), Université Catholique de Louvain, 1200 Brussels, Belgium

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

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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

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