Special Issue

Pathology and Genetics of Glioblastoma

Message from the Guest Editor

Glioblastomas (GBMs) are the most common primary brain tumors of adults. They show aggressive behavior and a poor prognosis, and despite intensive research on molecular targets, there is still no curative therapy. In the current 2021 WHO Classification of CNS tumors, novel genetic and epigenetic aspects are highlighted, contributing to GBM initiation and progression. The most common genetic alterations in GBMs are TERT mutations as well as EGFR amplifications and CDKN2A/B deletions. Furthermore, GBMs show aberrant DNA-methylation landscapes altering numerous biological pathways. This leads to an intimate relationship of GBM cells with the microenvironment, supporting tumor growth. Therefore, it is necessary to understand genetic and epigenetic mechanisms occurring in GBMs in order develop advanced therapy strategies. This Special Issue invites contributions (original research articles and reviews) that highlight our enhanced understanding of the genomic and epigenomic landscape of GBMs to better understand the pathology underlying glioblastomas, opening up new ways in glioblastoma therapy.

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.

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