

Special Issue

Novel Therapeutic Treatments to Target Glioblastoma Intratumoral Heterogeneity and Plasticity

Message from the Guest Editor

Glioblastoma multiforme (GBM) is the most aggressive type of brain cancer with a 5-year relative survival (4.6% only at 5 years) that has remained stable over the last 3 decades. Intratumour heterogeneity is a key feature that makes GBM one of the most deadly types of tumours, which results from the capacity of GBM-cancer stem cells to inter-convert between different cancer cell populations in response to changes in the tumour microenvironment and/or different drug treatments. This not only explains the poor performance in single drug therapy in GBM, but also reveals a key role for GBM plasticity, the interaction of GBM and the microenvironment and brain cancer progression, and thus constitutes a novel paradigms that needs to be addressed in order to find better treatments for patients with GBM. This special issue will be dedicated to publish original work and reviews in the areas of neuro-oncology, pharmacology, bioinformatics, cell and cancer biology, drug-screensings, bioengineering, genetics, and others, on aspects that will contribute to better understanding at the molecular level of the functional role of heterogeneity and plasticity in glioblastoma biology and treatment.

Guest Editor

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Message from the Editor-in-Chief

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