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At the Frontiers of Human Glioblastoma: Challenges in Introducing New Therapeutic Strategies

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Deadline for manuscript
submissions:

closed (15 June 2021)

Message from the Guest Editors

Adult Glioblastoma is a highly aggressive malignant brain tumor. The standard procedure, which has not been modified in the last two decades, includes surgical resection followed by radiotherapy with concomitant temozolomide chemotherapy. Unfortunately, glioblastoma recurrence is extremely frequent. Problems with the introduction of new therapies, even as adjuvants, include the low penetration of anticancer drugs in the brain due to the blood-brain barrier, the high inter- and intra-tumor heterogeneity of glioblastoma cells, as well as their invasiveness and resistance to therapy. Therefore, new glioblastoma models that will improve our knowledge and allow investigation of new therapeutic strategies under conditions that mimic the situation in patients with high fidelity are demanded.

This Special Issue will assemble preclinical and clinical studies of glioblastoma, from pathophysiological mechanisms to new therapeutic strategies. Studies based on new glioblastoma models (including 3D cultures, bioprinting, microfluidic devices, and animal models); clinical investigations; bioinformatics; and mathematical modeling of the patient's response are highly welcome.



mdpi.com/si/52820

Special Issue



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