

Special Issue

Molecular Targeted Therapeutic Strategies for Glioblastoma

Message from the Guest Editor

This Special Issue is devoted to the diagnostic and therapeutic role of molecular markers and signaling pathways in glioblastoma (GBM). GBM, classified as WHO grade 4 glioma, is the most common malignant primary brain tumor and ranks among the most lethal of human cancers. Extensive efforts in the molecular characterization of GBM revealed remarkable intratumoral cellular heterogeneity and plasticity. GBM tumors contain diverse neoplastic populations among which glioma stem cells (GSCs) have been attributed key roles in plasticity and therapy resistance. Recent advances in molecular and genetic techniques have improved our understanding of GBM complexity and may help anticipate molecular adaptations and subtype transitions that promote disease recurrence and contribute to therapy resistance. This Special Issue will compile new data and concepts regarding targeted strategies for GBM that include, but are not limited to, targeting signaling pathways, immunotherapeutic approaches and strategies for drug delivery through the blood-brain barrier (BBB).

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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