

Special Issue

Molecular and Cellular Biology of Glioblastoma: 2nd Edition

Message from the Guest Editors

Glioblastoma remains the most aggressive among brain tumors, with a median survival of merely 14 to 16 months post-diagnosis, even with comprehensive treatment strategies encompassing surgery, chemotherapy, and radiotherapy. This recurring tumor displays an escalating resilience to TMZ treatment cycles, leading to the development of drug resistance—an overarching challenge that undermines efforts to improve patient outcomes.

While the DNA repair enzyme O6-methylguanine-DNA methyltransferase (MGMT) was initially implicated in drug resistance within glioblastoma, recent studies have revealed that MGMT contributes to approximately 40% of recurrent glioblastoma cases.

However, the medical community still lacks a robust methodology or biomarker capable of predicting therapeutic response and anticipating the likelihood of tumor recurrence in glioblastoma cases. Therefore, overcoming the complexities of drug resistance, understanding intricate mechanisms, and pinpointing reliable biomarkers are pivotal areas where future research and medical efforts need to be directed to pave the way for more effective therapies and improved patient outcomes.

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