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Immune Microenvironment and Molecular Mechanism of Glioma

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Deadline for manuscript
submissions:

24 August 2024

Message from the Guest Editor

Gliomas are the most common malignant primary brain tumors in adults. Conventionally, gliomas have been classified based on their histology by immunohistochemistry methods. However, in 2016, the World Health Organization (WHO) introduced molecular markers in its classification, enabling a more accurate description and prognosis for these tumors according to their molecular characteristics. More recently, cancer immunotherapy, which has shown impressive results in the treatment of extracranial tumor types, is now being used for glioblastomas (GBM; WHO grade IV) treatment. However, disappointing outcomes of clinical studies involving immunotherapy treatment exposed the need for new approaches against GBM. Furthermore, GBM's microenvironment is rich in immunosuppressive factors, such as cytokines like transforming growth factor- β and IL-10, which can polarize immune cells into a regulatory profile, thus contributing to tumor growth. This Special Issue will focus on original papers covering topics related to “Immune Microenvironment and Molecular Mechanism of Glioma” that present advances in those fields.



mdpi.com/si/188519

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