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Molecular Mechanisms and Pathophysiology of Cerebral Gliomas: Towards Development of New Treatments

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Deadline for manuscript submissions:

closed (15 June 2024)

Message from the Guest Editors

Dear Colleagues,

Gliomas are the most frequent brain tumors, and, irrespective of the advances in biological and pharmaceutical knowledge, they still represent an unmet medical need. Low-grade gliomas inexorably evolve to high-grade tumors. Grade IV gliomas, astrocytomas IDH-mutant and glioblastomas IDH-wild type are the most aggressive forms of tumor, which have a poor prognosis and few therapeutic solutions. The discovery of new biomarkers and new molecular mechanisms involved in gliomas pathophysiology is required to develop innovative and more effective treatments.

This Special Issue will include papers investigating the pathological mechanisms of gliomas and new druggable biomarkers. New therapeutic strategies and preclinical (in vitro, in vivo, ex vivo) studies are also welcome. We gather original research articles and review papers. Potential topics include, but are not limited to, the following:

- 1. Molecular mechanisms in gliomagenesis and tumor progression;
- 2. Identification of new biomarkers;
- 3. Crosstalk between tumor (stem) cells and the brain microenvironment;
- 4. New preclinical models;
- 5. Innovative therapeutic approaches.



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Message from the Editor-in-Chief

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