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Molecular Mechanisms and Therapeutic Interventions of Glioma

Guest Editor:

Dr. Kai Zheng

Health Science Center, School of
Pharmaceutical Sciences,
Shenzhen University, Shenzhen
518060, China

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Message from the Guest Editor

Glioma is the most severe and fatal form of brain cancer in adults. Although growing understanding of the various mechanisms of intra- and intertumoral heterogeneity, immunosuppressive microenvironment, acquired resistance to the conventionally induction of apoptosis, clinical trials in the field are still largely disappointing. Genetic alterations and extrinsic environmental factors have been confirmed to promote tumor surveillance and disease progression. Moreover, there is increasing evidence that multi-organ crosstalk, such as microbiota-gut-brain axis, affect the molecular biological properties of gliomas. Clarifying these complex mechanisms are inevitably necessary to identify novel therapeutic targets and strategies. Alternatively, the emergency of other non-canonical lysosome-dependent or independent cell death mechanisms, encourage the discovering new therapeutic opportunities, beyond the conventional therapies. Furthermore, organoids are important platform for discovering the diagnosis biomarker, potential therapeutic treatments, progressive physiological characteristics and molecular mechanisms of glioma.



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Special Issue



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Cells Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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