



Advances in the Development of New Drugs and Treatment Targets for Brain Cancers

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Deadline for manuscript submissions:
closed (20 December 2023)

Message from the Guest Editors

Brain cancers represent a significant challenge for current oncology and drug development. Despite being rare in the general population, malignant brain tumors can occur in both adults and children. Standard treatment regimens consist of maximal surgical resection followed by radiotherapy and chemotherapy. However, the main issue is they are ‘protected’ by the most impermeable biological barrier—the blood-brain barrier. The 2021 edition of the WHO Classification of Tumors of the Central Nervous System emphasizes the advanced role of molecular diagnostics in the identification of molecular biomarkers, in addition to histologic features in the classification of CNS tumors to improve the new treatments. In recent decades, potent chemotherapeutic agents, oligonucleotides and antibodies for targeted therapy, multifunctional nanomedicines, immunotherapies and cell-based therapies have been developed and proposed to overcome most of the issues that arise due to the location of brain tumors and their biological barriers. This SI invites papers covering new therapeutic strategies and target drugs, exploring the importance of brain tumors at cellular and molecular levels.





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Message from the Editor-in-Chief

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