

Special Issue

Brain Tumors Treatment: Current and Future Challenges from Drug Formulations to Delivery Methods

Message from the Guest Editors

Drug delivery to the brain remains a substantial challenge in the fight against brain tumors. Most primary brain tumors, in particular high-grade gliomas, continue to be untreatable and therefore, have a dismal prognosis. The presence of the blood–brain barrier, a specialized structure at the microvasculature level that regulates the transport of molecules across the blood vessels into the brain parenchyma, is among the key factors that have made the development of targeted therapies against brain tumors such a difficult task. The main purpose of this Special Issue is to gather original experimental insights or thought-provoking review articles that aim to shed light on the molecular regulation governing blood–brain barrier pathophysiology and its interplay with current treatments for brain tumors and to emphasize the need for new drug delivery techniques and formulations to improve the survival of patients, possibly proposing new avenues for therapeutic approaches for brain tumors.

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Deadline for manuscript submissions

30 November 2025



Pharmaceutics

an Open Access Journal
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Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



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