



## Research Advances in Brain Metastasis

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### Message from the Guest Editor

Dear Colleagues,

The distinct microenvironment in the brain, including the existence of a disrupted blood–brain barrier (BBB), dense cellularity, etc., poses a demanding requirement for clinical diagnosis and treatment of brain metastasis (BM). BM is common in cancer patients, especially in lung cancer, breast cancer and melanoma, and is associated with high mortality. Lack of mandatory screening and reporting may lead to underestimated incidence. Regarding treatment, local treatments such as surgery and radiotherapy (WBRT, SBRT) are only eligible for selected patients, due to the widespread nature of BM and treatment-related complications. The delivery of systemic treatment is hurdled by the BBB, and repurposing of temozolomide in BM has not been validated in large randomized controlled trials. Emerging immune checkpoint inhibitor represents a novel option, yielding long-term response in some cases, and biomarkers to identify eligible patients are under exploration. Hopefully, technically solid and clinically relevant studies on BM may help improve patients' care.





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