



Advanced Neuroimaging Approaches for Malignant Brain Tumors

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Message from the Guest Editor

Dear Colleagues,

Noninvasive neuroimaging approaches provide an ever evolving standard in the diagnosis, treatment planning, and therapy evaluation of malignant brain tumors.

Despite their pivotal role, significant limitations remain regarding the accurate depiction of tumor morphology and pathophysiology. For instance, heterogeneous contrast enhancement on anatomical imaging and heterogeneity in (peri-)tumor metabolism indicate that the complex underlying molecular biology and pathophysiology of malignant brain tumors significantly challenges imaging reliability.

This Special Issue will therefore offer a platform to present neuroimaging advances that better characterize malignant cerebral glioma as well as brain metastases. Specifically, advanced multimodal PET & MR imaging approaches as well as physiologic imaging of lesion-induced epiphenomena, such as neurovascular uncoupling and diaschisis, are favored. Studies on novel radiomics and machine learning algorithms integrating hemodynamic and molecular imaging features to better understand tumor phenotype and to better differentiate pseudoprogression from pseudoresponse are also welcomed.





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Message from the Editor-in-Chief

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