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Brain Tumors: From Neuropathology to Molecular Biology

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Message from the Guest Editors

The classification of brain tumors has recently undergone several changes, primarily due to the identification of new histologic variants and the adoption of novel technologies. Up to several years ago, diagnosis was primarily performed on the basis of histopathological aspect of tumors and several immunohistochemical studies. In the 2016 WHO classification, and even more in the 2021 classification, thanks to the improved understanding of the genetic basis of tumorigenesis, the 2016 and 2021 WHO classifications were able to incorporate molecular findings into brain tumor diagnosis. The use of integrated phenotypic and genotypic parameters, provided by histology and molecular genetics, has provided greater accuracy to diagnosis, patient management, prognosis and treatment response.

Besides, in patients with similar neuropathological findings, the biomolecular studies have defined subgroups with different biomolecular features and different biological behaviors, response to treatment, recurrence rates and survivals. This Issue aims to discuss the improvements in tumor diagnosis and management enabled by biomolecular studies and neuropathology.



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Special Issue



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