

Special Issue

Tumors of the Nervous System: New Insights into Signaling, Genetics and Therapeutic Targeting

Message from the Guest Editors

Brain tumors and other nervous system tumors are an extremely heterogeneous group of benign and malignant tumors characterized by different aggressiveness and variable clinical outcomes. Despite their diversity, nervous system tumors share the tendency of being refractory to radical surgical resection, and radio-chemotherapy is often ineffective because of resistance mechanisms. For these reasons, clinical management of these kinds of tumors is frequently challenging and prognosis is still poor. In this scenario, precision medicine approaches are emerging as promising therapeutic avenues against nervous system tumors. This Special Issue focuses on the current understanding of signaling pathways, as well as genetic and epigenetic features involved in the pathogenesis of brain tumors and other nervous system tumors, with emphasis on the development of novel therapeutic approaches aimed at improving the current standard care. Original articles and up-to-date reviews are encouraged, in order to provide a comprehensive knowledge of the state of the art and future directions.

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