

## Special Issue

# Neuro-Oncology: From Molecular Basis to Therapy

### Message from the Guest Editor

Despite recent advances in the treatment of solid tumors, malignant brain tumors remain challenging and often fatal diseases. Irrespective of their heterogeneous nature, the brain with its specific brain microenvironment (e.g., the astrocytes) and anatomy (e.g., the blood–brain barrier) makes brain tumors unique diseases in many aspects. There is an unmet need for novel therapeutic approaches that take into account events in tumor development, primary and adaptive molecular tumor cell characteristics, cellular heterogeneity, as well as interactions between tumor cells and the brain microenvironment (e.g., immune cells, blood vessels, and neurons). Furthermore, molecular biomarkers could help to predict therapy efficacy, to tailor personalized treatment regimens, and to monitor therapy response. As damage to the healthy brain tissue severely impacts patients' quality of life, more insights into specific tumor cell vulnerabilities and molecular mechanisms of normal tissue toxicity are urgently needed. This Special Issue will cover a selection of original and review articles on the molecular biology of brain tumors and novel therapeutic approaches.

### Guest Editor

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### Deadline for manuscript submissions

closed (15 January 2023)



## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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