

Special Issue

Gliomas: From Molecular Mechanisms to Therapeutic Approaches

Message from the Guest Editors

Gliomas are the most frequent primary brain tumours; despite a multimodal therapeutic approach, based on surgery, radiotherapy and chemotherapy, their prognosis still remains poor. Thus, uncovering the underlying molecular mechanisms of glioma cancerogenesis could provide optional therapeutic strategies, leading to improvements in prognosis. This Special Issue focuses on the pathogenetic mechanisms involved in the onset and progression of gliomas, in order to refine the existing algorithms in neuropathologic diagnosis and to establish appropriate management in neuro-oncological practice. Potential topics include, but are not limited to, the following:

- Technical advancement in gold standard procedures (including magnetic resonance and positron emission tomography);
- Advances in the molecular genetics of gliomas by next-generation techniques with implications for classification and therapy;
- The tumour immune microenvironment and tumour heterogeneity in the discovery of new therapeutic biomarkers (i.e., tumour-associated antigens for CART-therapy);
- Introductions, in clinics, of novel therapeutic options (proton-therapy or immunotherapy).

Guest Editors

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