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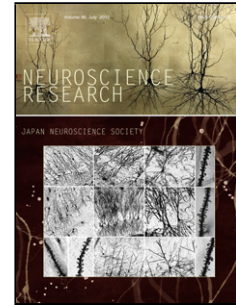
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“Combating Malignant Astrocytes: Strategies Mitigating Tumor Invasion”

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Highlights:

- Glioma classifications, etiology, and disease management are discussed.
- A major clinical challenge in glioma treatment is tumor invasion.
- Invasion involves volume changes, glutamate release, and network formation.
- Anti-invasive strategies may lead to new therapies that are urgently needed.

Abstract: Malignant gliomas are glial-derived, primary brain tumors that carry poor prognosis. Existing therapeutics are largely ineffective and dramatically affect quality of life. The standard of care details a taxing combination of surgical resection, radiation of the resection cavity, and temozolomide (TMZ) chemotherapy, with treatment extending life by only an average of months (Maher et al., 2001, Stupp et al., 2005). Despite scientific and technological advancement, surgery remains the most important treatment

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