



NEWS UPDATE

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Brain Cancer That “Eats” the Skull Stuns Scientists



A new study reveals that **glioblastoma**, the most aggressive form of brain cancer, does more damage than previously known. It not only invades brain tissue but also **erodes the skull bone**, altering the immune environment inside skull marrow. This bone erosion occurs especially along skull sutures, creating widened channels that may allow inflammatory immune cells from the skull marrow to flow into the tumor fueling its growth. Researchers also observed depletion of B cells and overpopulation of pro-inflammatory myeloid cells in affected skull marrow.

Interestingly, when mice with glioblastoma were given **bone-protecting drugs** (like zoledronic acid or denosumab), skull erosion was halted but in some cases tumor growth accelerated, and the effectiveness of immunotherapy was reduced. This discovery challenges the view of glioblastoma as purely a brain-localized disease and suggests that future therapies must target both brain and bone marrow interactions to improve outcomes.

Source: <https://inshorts.com/en/news/brain-cancer-that-eats-skull-stuns-scientists1759731665696>