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Brain tumors: Cancer stem-like cells interact with the microenvironment

Liu HL *et al.* Interaction between cancer stem-like cells and tumor microenvironment

Hai-Long Liu, Ya-Nan Wang, Shi-Yu Feng

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The brain tumor microenvironment

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The **brain tumor microenvironment**. High-grade **brain tumors** are heterogeneous with respect to the composition of bona **fide tumor cells** and with respect to a range of intermingling parenchymal **cells**. Glioblastomas harbor multiple **cell types**, some with **increased tumorigenicity** and **stem cell-like** capacity. The **stem-like cells** maybe the c

Cited by: 466**Author:** Nikki A. Charles, Eric C. Holland, Richar...**Publish Year:** 2011

Tumor Microenvironment in the Brain

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The **tumor microenvironment** in the brain consists of many different cell types that involve brain-resident and brain-infiltrating cells. In this context, **brain endothelial cells** that constitute **blood vessels**, **microglia/macrophages**, and **astrocytes** have received the most attention so far.

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Cancer stem cells and the tumor microenvironment ...

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<https://www.sciencedirect.com/science/article/pii/S135727251830181X>

Oct 01, 2018 · **Cancer stem cells** with the strong association with its **microenvironment** can avoid the cellular drug exposure (Quail and Joyce. 2013; Brandau et al., 2013). From the work of Gilbertson

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The brain tumor microenvironment

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Glioblastomas harbor **multiple cell types**, some with **increased tumorigenicity** and **stem cell-like capacity**. The **stem-like cells** maybe the **cells** of origin for **tumor relapse**. However, the **tumor-associated parenchymal cells** such as **vascular cells**, microglia, peripheral **immune cells**, and neural precursor **cells** also play a vital role in controlling the course of pathology. In this review, we describe the multiple **interactions** of bulk **glioma cells** ...

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Author: Nikki A. Charles, Eric C. Holland, Richard Gi...

Publish Year: 2011

Cancer stem cells and the tumor microenvironment ...

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Publish Year: 2015

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Brain malignancies encompass a range of primary and metastatic cancers, including low-grade and high-grade gliomas and **brain** metastases (BrMs) originating from diverse extracranial **tumors**. Our understanding of the **brain tumor microenvironment** (TME) remains limited, and it ...

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The brain tumor microenvironment

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In addition, **microglial cells**, which can contribute up to 30% of a **brain tumor mass**, play a role in **glioblastoma cell invasion**. Moreover, **non-neoplastic astrocytes** can be converted into a reactive phenotype by the **glioma microenvironment** and can then secrete a number of factors which influences tumor biology. The young brain may have the capacity to inhibit gliomagenesis by the **endogenous neural** ...

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Author: Nikki A. Charles, Eric C. Holland, Richard...

Publish Year: 2011

Cancer stem cells and the tumor microenvironment ...

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Role of tumor microenvironment in cancer stem cell ...

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Oct 01, 2018 · **Cancer stem cells** with the strong association with its **microenvironment** can avoid the cellular drug exposure (Quail and Joyce, 2013; Brandau et al., 2013). From the work of Gilbertson and Gutmann it is demonstrated that, the interaction between **brain** CSCs and signals from the local