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Basic Study

Effect of conditioned medium from neural stem cells on glioma progression and its protein expression profile analysis

Gui-Long Zhang, Cheng Qian, Shi-Zhen Zhang, Yong-Hua Tuo, Bai-Yun Zeng, Yun-Xiang Ji, Ye-Zhong Wang

Abstract

BACKGROUND

Emerging evidence suggests that the spread of glioma to the subventricular zone (SVZ) is closely related to glioma recurrence and patient survival. Neural stem cells (NSCs) are the main cell type in the SVZ region and exhibit tumor-homing

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B7-H4 expression is elevated in human U251 glioma stem ...

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Moreover, **conditioned medium** from U251 **stem-like cells** had a significant stimulation **effect** on B7-H4 **expression** compared with serum-containing **conditioned medium** ($P < 0.01$). Negative costimulatory molecule B7-H4 was preferentially expressed in U251 **stem-like cells**, and **conditioned medium** from these **cells** more effectively induced monocytes to ...

Cited by: 6

Author: Lian-Jie Mo, Hong-Xing Ye, Ying Mao, Yu...

Publish Year: 2013

Human Olfactory Bulb Neural Stem Cells (Hu-OBNSCs) Can ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6358986>

2.4. Harvest of G-CSC **Conditioned Medium** (CM G-CSC) **Conditioned medium** from glioblastoma cancer **stem cells** (CM-G-CSC) was collected by culturing the GBM neurospheres in DMEM/F12 (1:1) serum-free **medium** containing EGF, and human recombinant bFGF) as reported previously .

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Neural Stem Cell-Conditioned Medium Suppresses ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5657700>

Mar 01, 2017 · Effect of Neural Stem Cell-Conditioned Medium Upon Macrophage Phenotype and Activation State Our previous work showed that infiltrating macrophages are the majority cell type within lesion areas and directly contribute to secondary injury via promotion of inflammation 24.

Cited by: 13 Author: Zhijian Cheng, Dale B. Bosco, Li Sun, Xia...

Publish Year: 2017

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Neural Stem Cell Tropism to Glioma: Critical Role of Tumor ...

<https://mcr.aacrjournals.org/content/6/12/1819>

Dec 01, 2008 · Hypoxia is a critical aspect of the microenvironment in glioma and generally signifies unfavorable clinical outcome. Effective targeting of hypoxic areas in gliomas remains a significant therapeutic challenge. New therapeutic platforms using neural stem cells (NSC) for tumor-targeted drug delivery show promise in treatment of cancers that are refractory to traditional therapies.

Cited by: 179 Author: Donghong Zhao, Joseph Najbauer, Eliza...

Publish Year: 2008

Glutamate promotes neural stem cell proliferation by ...

<https://pubmed.ncbi.nlm.nih.gov/26388684>

The high levels of glutamate might involve in neurogenesis after brain injuries. However, the mechanisms are not fully understood. In this study, we investigated the effect of glutamate on the proliferation of rat embryonic neural stem/progenitor cells (NSCs) through regulating the vascular endothelial growth factor (VEGF) expression of astrocytes (ASs) in vitro, and the cyclin D1 expression ...

Cited by: 3 Author: C X Liu, X Xu, X L Chen, P H Yang, J S Z...





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[Glioma Stem Cell Proliferation and Tumor Growth are ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3144745>

Jul 08, 2011 · **Glioma stem cells** from primary patient specimens (Figure 2A) and human **glioma** xenografts (Figure 2B) displayed higher levels of NOS2 **protein** than matched non-GSCs, while no consistent **expression** pattern for NOS1 or NOS3 was observed. These data suggest that NOS2 **expression** in GSCs might contribute to their malignant properties, as: 1) NOS2 is ...

Cited by: 258

Author: Christine E. Eyler, Qiulian Wu, Kenneth Y...

Publish Year: 2011

[Effect of adipose-derived stem cell-conditioned medium on ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4508978>

Introduction. Adipose-derived **stem cells** (ASCs) comprise a plastic-adherent, proliferative, multipotent **cell** population isolated from the stromal vascular fraction (SVF) of adipose tissue ().ASCs are capable of self-renewal and are able to differentiate into various types of **cell** populations, including adipocytes, osteoblasts, chondrocytes, myocytes and neurons.

Cited by: 7

Author: Ju-Hee Lee, Chul Hong Park, Kwang-Ho...

Publish Year: 2015

[Human Olfactory Bulb Neural Stem Cells \(Hu-OBNSCs\) Can Be ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6358986>

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Author: Hany E Marei, Patrizia Casalbore, Asmaa...

Publish Year: 2019

[Neural Stem Cell Tropism to Glioma: Critical Role of Tumor ...](#)

<https://mcr.aacrjournals.org/content/6/12/1819> ▾

Dec 01, 2008 · Hypoxia is a critical aspect of the microenvironment in **glioma** and generally signifies unfavorable clinical outcome. Effective targeting of hypoxic areas in gliomas remains a significant therapeutic challenge. New therapeutic platforms using **neural stem cells** (NSC) for tumor-targeted drug