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2007年2月13日 - In most cases, neural stem cell (NSC) transplants have shown either poor ... adult spinal cord with good potential of integration into host neural circuits. Animal surveillance and the surgical procedures described here were into the role of spinal microenvironment in the fate choice of grafted NSCs by ...

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Monitoring maturation of neural stem cell grafts within a host microenvironment

Kopach O. Microenvironmental control of neural progenitors

Olga Kopach

Abstract

Neural stem cells (NSC) act as a versatile tool for neuronal cell replacement strategies to treat neurodegenerative disorders in which functional neurorestorative mechanisms are limited. While the beneficial effects of such cell-based therapy have already been documented in terms



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Development of Neural Stem Cell-Based Therapies for ...

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Neural stem cell (NSC)-based therapies, such as cell transplantation, are an emerging strategy for restoring neuronal function in Parkinson's disease (PD), which is characterized by a profound and selective loss of nigrostriatal dopaminergic (DA) neurons. Advanced researches on the microenvironment of grafted cells will promote clinical applications of NSCs for neurological disorders.

Author: Jiunn-Tay Lee, Chia-Kuang Tsai, Chun...

Publish Year: 2018



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<https://stemcells.journals.onlinelibrary.wiley.com/doi/abs/10.1002/stem.2827>

Mar 25, 2018 · We tested the possibility of rejuvenating the host microenvironment and boosting SNpc DA neuronal plasticity via the unilateral transplantation of syngeneic neural stem/progenitor cells (NSCs) in the SNpc of aged mice with 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced experimental PD.

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Jun 12, 2007 · Noninvasive monitoring of stem cells, using high-resolution molecular imaging, will be instrumental to improve clinical neural transplantation strategies. We show that labeling of human central nervous system stem cells grown as neurospheres with ...

Cited by: 421 Author: Raphael Guzman, Nobuko Uchida, Tonya...

Publish Year: 2007

[PDF] Molecular and Magnetic Resonance Imaging of ... - ...

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successful delivery and safety monitoring in the clinical setting. In this study, we used bioluminescence (BLI) and magnetic resonance imaging (MRI) to visualize the fate of grafted human embryonic stem cell (hESC)-derived human neural stem cells (hNSCs) in stroke-damaged rat brain. The hNSCs were genetically engineered

[PDF] Neural stem cell transplantation in - journals.sagepub.com

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