

## NEURAL STEM CELLS FOR BRAIN AND SPINAL CORD REPAIR%0A

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University of California - San Diego. "Human neural stem cell grafts to repair spinal cord injuries in monkeys: Findings represent major and essential step toward future human clinical trials

[Stem Cells for Spinal Cord Repair: Cell Stem Cell](#)  
The spinal cord is the main relay for signals between the brain and the body. Spinal cord injury completely or partially deprives the individual of mobility and sensory input as well as autonomic nervous system control below the level of the lesion.

[Neural Stem Cells: Generating and Regenerating the Brain ...](#)

One of the landmark events of the past 25 years in neuroscience research was the establishment of neural stem cells (NSCs) as a life-long source of neurons and glia, a concept that shattered the dogma that the nervous system lacked regenerative power.

[\(PDF\) Neural stem cells for spinal cord repair - ResearchGate](#)

Stem cells have the capacity to differentiate into all relevant neural cell types necessary to replace degenerated spinal cord tissue and can now be obtained from virtually any stage of

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Neural Stem Cells for Brain and Spinal Cord Repair Edited by Tanja Zigova, PhD Center for Aging and Brain Repair, Departments of Neurosurgery, Anatomy  
**NEURAL STEM CELLS FOR BRAIN AND SPINAL CORD REPAIR** Tanya ...

The scientific arguments are laid out in Zigova, Snyder and Sanberg's multi-author work Neural stem cells for brain and spinal cord repair. The least challenging source of stem cells, from an ethical view, is the patient's own tissue. For instance, several experimental studies have shown that resident neural precursor cells can be encouraged to generate differentiated neurons, but the ethical

[Spinal Cord Injury Research Advances with New Stem Cells](#)

The hope is that the cultured spinal cord neural stem cells from this stem cell research will benefit people with other spinal cord dysfunction disorders via modeling and drug

screening. According to UCSD, such disorders would include amyotrophic lateral sclerosis, progressive muscular atrophy, hereditary spastic paraplegia and spinocerebellar ataxia, a group of genetic disorders characterized by progressive discoordination of gait, hands and eye movement.

#### Neural Stem Cells - Stemcell Technologies

As the embryo develops, neural stem cells can be identified in nearly all regions of the embryonic mouse, rat and human CNS, including the septum, cortex, thalamus, ventral mesencephalon and spinal cord. NSCs isolated from these regions have a distinct spatial identity and differentiation potential.

#### Stem Cell Based Therapies for Spinal Cord Injury

Since the identification and characterization of stem cells, a great deal of interest has been given to their potential for treatment of spinal cord injury (SCI), traumatic brain injury, and degenerative brain diseases (7-12). Considering their characteristic abilities to self-renew and differentiate into any cell type in the body, the therapeutic promise of stem cells is justified. Before

#### Stem Cells for Spinal Cord Repair - ScienceDirect

The spinal cord is the main relay for signals between the brain and the body. Spinal cord injury completely or partially deprives the individual of mobility and sensory input as well as autonomic nervous system control below the level of the lesion.

#### Induced pluripotent stem cell-derived neural stem cell

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Neural stem cell grafts derived from fetal central nervous system tissue or embryonic stem cells have shown therapeutic promise by differentiation into neurons and glia that have the potential to form functional neuronal relays across injured spinal cord segments. However, implementation of fetal-derived or embryonic stem cell-derived neural stem cell therapies for patients with spinal cord injury raises ethical concerns. Induced pluripotent stem cells can be generated from adult somatic

#### Neural Stem Cells and Repair - LINDSEY LAB

Both the brain and spinal cord of the zebrafish display a lifelong regenerative capacity, owing to different stem cell populations. However, recent work has shown that not all stem cells in the zebrafish have the same ability to generate new neurons following injury. Whether this is a result of the innate blueprint of distinct stem cell populations or the niche micro-environment remains

#### A First-in-Human, Phase I Study of Neural Stem Cell

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The grafted cells were a clinical lot (Lot No. CRL471925-3, passage 12), a human neural stem cell line derived from fetal spinal cord of 8 gestational weeks. They were suspended in hibernation buffer at 10<sup>4</sup> cells/L.

#### Spinal cord injuries: how could stem cells help ...

Different cell types, including stem cells, from a variety of sources, including brain tissue, the lining of the nasal cavity, tooth pulp, and embryonic stem cells, have been tested in these studies mostly conducted in rat models of spinal cord injuries. None of these cells have produced more than a partial recovery of function, but it is an active area of research, and several different types of stem cell are being tested and modified.