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SIMILAR**Name of Journal:** *World Journal of Stem Cells***Manuscript NO:** 60359**Manuscript Type:** ORIGINAL ARTICLE*Basic Study*

Disease modifying treatment of spinal cord injury with directly reprogrammed neural precursor cells in non-human primates

Baklaushev VP *et al.* SCI treatment by directly reprogrammed neural precursors

Vladimir P. Baklaushev, Oleg V. Durov, Vladimir A. Kalsin, Eugene V. Gulaev, Sergey V. Kim, Ilya L Gubskiy, Veronika A. Revkova, Ekaterina M. Samoilova, Pavel A Melnikov, Dzhina D. Karal-Ogly, Sergey V. Orlov, Alexander V. Troitskiy, Vladimir P. Chekhonin, Alexander V. Averyanov, Jan-Eric Ahlfors

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Prospects for clinical use of reprogrammed cells for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4432516>

Additional support for the successful use of iPSC as a **cell therapy** has been shown in a study by Morizane and colleagues where neuronal cells derived from **human leukocyte antigen (HLA)**-matched **non-human primate iPSC**, generated by both lentiviral and non-integrating episomal methods, were successfully engrafted by injection into the brain of host monkeys, in the absence of **immunosuppression**...

Cited by: 17

Author: Ana Belen Alvarez Palomo, Samuel McLen...

Publish Year: 2015

Thyroid Hormone and Neural Stem Cells: Repair Potential ...

<https://europepmc.org/article/PMC/PMC7479247> ▼

Aug 26, 2020 · Thyroid Hormone in Stem Cell Repair After Traumatic **Spinal Cord Injury**. **Spinal cord** trauma **directly** disrupts the bidirectional information flow between the brain and peripheral effectors, risking the loss of sensation and voluntary movement of tissues innervated by neurons below the site of **injury**.

Human Oligodendrogenic Neural Progenitor Cells Delivered ...

[https://www.cell.com/stem-cell-reports/fulltext/S2213-6711\(18\)30440-5](https://www.cell.com/stem-cell-reports/fulltext/S2213-6711(18)30440-5) ▼

Fehlings and colleagues investigated the use of **directly reprogrammed** human **neural progenitor cells** biased toward an oligodendrogenic fate (oNPCs) combined with sustained delivery of chondroitinase ABC to treat chronic **spinal cord injury** in an immunodeficient rat model. This combinatorial therapy increased long-term survival of oNPCs, facilitated greater oligodendrocyte differentiation ...

Cited by: 18

Author: Satoshi Nori, Satoshi Nori, Mohamad Khaz...

Publish Year: 2018

Recent Progress in the Regeneration of Spinal Cord ...

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Neural precursor cells (NPCs) have emerged as a viable therapeutic target for the **treatment** of a variety of neurological disorders. Previously, transplantation of NPCs was shown to attenuate disease pathology in animal models of **Alzheimer's disease**, Parkinson's disease, Huntington's disease, and **spinal cord injury** [4–8].

Cited by: 17

Author: Warren C. Plaisted, Angel Zavala, Edna...

Publish Year: 2016

Tissue Engineered Neural Constructs Composed of Neural ...

<https://www.nature.com/articles/s41598-019-39341-9>

Feb 28, 2019 · Human **Spinal** Oligodendrogenic **Neural** Progenitor **Cells** Promote Functional Recovery After **Spinal Cord Injury** by Axonal Remyelination and Tissue Sparing. Stem **Cells** Transl Med. 7 ...

Cited by: 12

Author: V. P. Baklaushev, V. G. Bogush, V. A. K...

Publish Year: 2019

Human Oligodendrogenic Neural Progenitor Cells Delivered ...

<https://www.sciencedirect.com/science/article/pii/S2213671118304405>

Dec 11, 2018 · Introduction. **Neural** progenitor **cells** (NPCs) represent a promising regenerative strategy to target several CNS disorders (Lindvall and Kokaia, 2006). Neurobehavioral recovery following NPC transplantation into the injured **spinal cord** has been reported in both rodent and **non-human** primate models (Cummings et al., 2005, Iwanami et al., 2005, Karimi-Abdolrezaee et al., 2010).

Cited by: 30

Author: Satoshi Nori, Mohamad Khazaei, Christ...

Publish Year: 2018

Review of transplantation of neural stem/progenitor cells ...

<https://www.sciencedirect.com/science/article/pii/S0736574813001123>

Nov 01, 2013 · The transplanted **cells** are purified human **neural** stem **cells** (HuCNS-SC) generated

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8. Rebuilding the Nervous System with Stem Cells ...

<https://stemcells.nih.gov/info/2001report/chapter8.htm> ▾

Jun 17, 2001 · Today, most treatments for damage to the brain or **spinal cord** aim to relieve symptoms and limit further damage. But recent research into the regeneration mechanisms of the central nervous system, including the discovery of stem **cells** in the adult brain that can give rise to new neurons and **neural** support **cells**, has raised hopes that researchers can find ways to actually repair central nervous ...

Remyelination Is Correlated with Regulatory T Cell ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4911106>

Neural precursor cells (NPCs) have emerged as a viable therapeutic target for the **treatment** of a variety of neurological disorders. Previously, transplantation of NPCs was shown to attenuate disease pathology in animal models of **Alzheimer's disease**, Parkinson's disease, Huntington's disease, and **spinal cord injury** ...

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Publish Year: 2018

Tissue Engineered Neural Constructs Composed of Neural ...

<https://www.nature.com/articles/s41598-019-39341-9>

Feb 28, 2019 · Human **Spinal** Oligodendrogenic **Neural** Progenitor **Cells** Promote Functional Recovery After **Spinal Cord Injury** by Axonal Remyelination and Tissue Sparing. Stem **Cells** ...

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