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The Holy Grail of Orthopedic Surgery: Mesenchymal Stem ...

https://www.researchgate.net/publication/317647125_The_Holy_Grail...

Mesenchymal stem cells (**MSCs**) are broadly applicable to the **field** of **orthopedics**.**MSCs** can be stimulated to differentiate into several **cellular** lineages with various clinical applications.

The Holy Grail of Orthopedic Surgery: Mesenchymal Stem ...

https://**www.hindawi.com**/journals/sci/2017/2638305

Mesenchymal stem cells (MSCs) are derived from adult stem cells; they are multipotent and exert anti-inflammatory and immunomodulatory effects. They can differentiate into multiple **cell** types of the **mesenchyme**, for example, **endothelial cells**, osteoblasts, chondrocytes, fibroblasts, tenocytes, vascular smooth **muscle cells**, and sarcomere muscular **cells**.

Cited by: 10 **Author:** Roberto Berebichez-Fridman, Ricardo Gó...
Publish Year: 2017

The Holy Grail of Orthopedic Surgery: Mesenchymal Stem ...

https://mafiadoc.com/**the-holy-grail**-of-orthopedic-surgery...

Pipino and A. Pandolfi, "**Osteogenic** differentiation of amniotic fluid **mesenchymal** stromal **cells** and their **bone regeneration potential**," World Journal of **Stem Cells**, vol. 7, no. 4, pp. 681–690, 2015.

Perspectives on the Use of Mesenchymal Stem Cells in ...

www.ncbi.nlm.nih.gov › Journal List › Front Immunol › v.4; 2013

Minimizing overall burden of lifelong **immunosuppression** is key to wider application of these non-life saving grafts. **Allograft tolerance** is the **holy grail** of many **cell-based** immunomodulatory strategies. Recent protocols using **mesenchymal stem cells** from **bone marrow** and adipose **tissue** offer promise and **potential** in VCA.

Cited by: 29 **Author:** Jan A. Plock, Jan A. Plock, Jonas T. Sch...
Publish Year: 2013

(PDF) Stem Cells: The Holy Grail of Regenerative Medicine

https://www.researchgate.net/publication/260186417_**Stem_Cells**_The...

2 **Stem Cells**: The **Holy Grail of** Regenerative Medicine 41 Earlier, the Parkinson's disease (PD) patients received a transplant of the adrenal medullary **tissue**, which did not result in ...

Bioactive Silicate Nanoplatelets for Osteogenic ...

https://onlinelibrary.wiley.com/doi/full/10.1002/adma.201300584

Kui Xu, Weizhen Chen, Caiyun Mu, Yonglin Yu and Kaiyong Cai, Strontium folic acid derivative functionalized titanium surfaces for enhanced **osteogenic** differentiation **of mesenchymal stem cells** in

Name of Journal: *World Journal of Stem Cells*
Manuscript NO: 47706
Manuscript Type: REVIEW

Enhancing the survival, engraftment and osteogenic potential of mesenchymal stem cells

Garcia-Sanchez D *et al*. Approaches to enhance MSC survival, engraftment and osteogenesis

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Osteogenic potential: Comparison between bone marrow ...

https://**www.ncbi.nlm.nih.gov**/pmc/articles/PMC4131270

Jul 26, 2014 · **Cytokines** can **enhance cell proliferation**, the homing of circulating or regional **mesenchymal stem cells** and differentiation of **cells** into **osteoblast lineage**. The function of **cells** in **BTE** is to be differentiated into osteoblasts which can produce the extracellular matrix, secret bone-specific proteins and cytokines to **enhancing** new bone formation, angiogenesis, etc .

Cited by: 118 **Author:** Han-Tsung Liao, Chien-Tzung Chen

Publish Year: 2014

Transplantation of mesenchymal stem cells to enhance ...

https://www.nature.com/articles/2404777

May 31, 2007 · Engraftment of allogeneic mesenchymal stem cells in the **bone marrow** of a patient with **severe idiopathic aplastic anemia** improves **stroma**. Leukemia 2003; 17 : 474–476. CAS

Cited by: 525 **Author:** K. Le Blanc, H. Samuelsson, B. Gustafs...

Publish Year: 2007 **Author:** K Le Blanc

Hypoxic Preconditioning of Mesenchymal Stem Cells with ...

https://**stemcells**journals.onlinelibrary.wiley.com/doi/full/10.1002/**stem**.2853

Jul 03, 2018 · **Short-term hypoxic preconditioning** of **mesenchymal stem cells** (**MSCs**) can prolong **cell viability** in **vivo**, while the aggregation of **MSCs** into spheroids increases **cell survival**, **trophic factor secretion**, and tissue formation in **vivo**.

Cited by: 2 **Author:** Steve S. Ho, Ben P. Hung, Nasser Heyr...

Publish Year: 2018

[PDF] Mesenchymal stem cells enhance allogeneic islet ...

https://www.diabetesresearch.org/document.doc?id=769

for **enhancement** of **islet engraftment**, thereby decreasing the numbers of islets needed to achieve insulin independence. Fur-thermore, **MSCs** may serve as a new, safe, and **effective antire-jection** therapy. **Diabetes** 59:2558–2568, 2010 M **ultipotent mesenchymal stem cells** (**MSCs**) (1,2) can deliver immunomodulatory signals

Mesenchymal stem/stromal cells enhance engraftment ...

https://www.nature.com/articles/s41598-017-13971-3