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Mechano-response of stem cells for vascular repair



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Stem cell therapy for vascular regeneration: Adult ...

www.ncbi.nlm.nih.gov › Journal List › HHS Author Manuscripts

Aug 03, 2010 · Mechanisms of benefit of adult stem cells in vascular regeneration. It appears that only a small subset of 'EPCs' are of true endothelial lineage in man. These endothelial colony forming cells (ECFCs) can form vascular structures in vivo, but are rare, only 1-2 per 100 million mononuclear cells.

Cited by: 193

Author: Nicholas J. Leeper, Arwen L. Hunter, John..

Publish Year: 2010

It Takes Two · Figure 2

Biology and mechano-response of tendon cells: Progress ...

<https://onlinelibrary.wiley.com/doi/10.1002/jor.22885>

In tendons, the primary resident **cells** are tenocytes, differentiated **cells** responsible for the maintenance of tendon integrity, remodeling, and **repair**. 2 However, recent studies have identified an additional **cell** population in tendons named tendon **stem/progenitor cells** (TSPCs). 3-5 Like **stem cells** present in adult tissues, TSPCs are believed to ...

Cited by: 10

Author: Hui B. Sun, Christoph Schaniel, Daniel J....

Publish Year: 2015

Stem cells: What they are and what they do - Mayo Clinic

<https://www.mayoclinic.org/.../in-depth/stem-cells/art-20048117> ▼

Stem cells FAQ — Covers **stem cell** types, including embryonic **stem cells**, uses, and ethical issues. ... This versatility allows embryonic **stem cells** to be used to regenerate or **repair** diseased tissue and organs. ... Journal of Cardiothoracic and **Vascular** Anesthesia. In press. Accessed July 23, 2018. ...

Chapter 4: Cell Proliferation and Tissue Regeneration and ...

<https://quizlet.com/146135638/chapter-4-cell-proliferation-and...> ▼

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Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 46891

Manuscript Type: REVIEW

Mechano-response of stem cells for vascular repair

Tian GE *et al.* Mechano-response of stem cells for vascular-repair

Ge-Er Tian, Jun-Teng Zhou, Xiao-Jing Liu, Yong-Can Huang

Abstract

Stem cells have shown great potential in vascular repair. Numerous evidences indicate that mechanical forces such as shear stress and cyclic strain can

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Valvular and Vascular Repair and Regeneration - Center for ...

<https://www.mayo.edu/.../focus-areas/valvular-vascular-repair-regeneration> ▼

To treat **cardiovascular diseases**, clinicians and researchers are developing biological heart valves, identifying new **stem cells**, and finding ways to enhance **blood vessel growth** and **repair**. Medication and surgery, which today are used to treat **cardiovascular diseases** such as **valvular heart disease**, **peripheral artery disease** and **ischemic vascular disease**, can often sufficiently manage patients' ...

Stem cell therapy for vascular regeneration: Adult ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2920605>

Aug 03, 2010 · **Adult stem cells in vascular regeneration**. The therapeutic application of **adult stem cells** is farther along in clinical development than any of the other **stem cell** approaches. **Adult stem cells** exist in the **bone marrow**, the circulation or as residents within a specific tissue 9. Therapies aimed at neovascularization have so far included **bone marrow derived** and **circulating stem cell** approaches.

Cited by: 199

Author: Nicholas J. Leeper, Arwen L. Hunter, John...

Publish Year: 2010

Mesenchymal stem cells and vascular regeneration - Gu ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/micc.12324>

Sep 28, 2016 · **Stem cells** represent a potential **cell source** for **vascular tissue engineering** 182 including **embryonic stem cells**, **induced pluripotent stem cells**, **hematopoietic stem cells**, and **endothelial progenitor cells**. **SMCs** and **ECs** derived from **induced pluripotent stem cells** have been shown to populate **decellularized mouse aortic scaffolds** to generated dual-seeding vessels.

Cited by: 16

Author: Wenduo Gu, Xuechong Hong, Claire Pott...

Publish Year: 2017

How mechanical stretching forces impact human vascular ...

<https://www.sciencedaily.com/releases/2015/10/151019110945.htm> ▼

Oct 19, 2015 · Overall, these promising results indicate a **cell-type** dependent **mechano-response** of **ECs** and **SMCs** and may allow **cell-type** specific activation of **vascular cells** by **frequency-selective mechanical** ...