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Adipose stromal/stem cells in regenerative medicine: potentials and limitations



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Adipose Tissue-Derived Stem Cells in Regenerative Medicine

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5040903>

Jul 26, 2016 - These so called **adipose tissue-derived stem cells** (ADSCs) are considered to be ideal for application in **regenerative therapies**. Their main advantage over **mesenchymal stem cells** derived from other sources, e.g. from **bone marrow**, is that they can be easily and repeatably harvested using minimally invasive techniques with **low morbidity**.

Cited by: 96

Author: Laura Frese, Pe Petra Dijkman, S Simo...

Publish Year: 2016

The Potential of Adipose Stem Cells in Regenerative Medicine

<https://link.springer.com/article/10.1007/s12015-010-9193-7> ▾

Sep 18, 2010 - **Adipose stem cells** (ASCs) are an attractive and **abundant stem cell** source with **therapeutic applicability** in diverse fields for the **repair** and **regeneration** of acute and chronically damaged tissues.

Cited by: 376

Author: Bettina Lindroos, Riitta Suuronen, Riitta...

Publish Year: 2011

Adipose-Derived Stem Cells for Regenerative Medicine ...

<https://www.ahajournals.org/doi/abs/10.1161/01.res.0000265074.83288.09>

The emerging field of **regenerative medicine** will require a reliable source of **stem cells** in addition to **biomaterial scaffolds** and **cytokine growth factors**. **Adipose tissue** represents an abundant and accessible source of **adult stem cells** with the ability to differentiate along multiple **lineage pathways**.

Cited by: 2248

Author: Jeffrey M. Gimble, Adam J. Katz, Bruce ...

Publish Year: 2007

Cells | Special Issue : Adipose-Derived Stromal/Stem Cells

https://www.mdpi.com/journal/cells/special_issues/adipose_stem_cell ▾

Lipoma-derived stem cells (LDSCs) are proposed as a **potential tool** in **regenerative medicine** and **tissue engineering** due to their similar characteristics with **adipose-derived stem cells** (ADSCs...

Adipose stem cells: biology and clinical applications for ...

<https://www.sciencedirect.com/science/article/pii/S193152441300426X>

There is a clear clinical need for **cell therapies** to repair or regenerate tissue lost to disease or trauma. **Adipose tissue** is a renewable source of **stem cells**, called **adipose-derived stem cells** (ASCs), that release important growth factors for wound healing, modulate the immune system, decrease inflammation, and home in on injured tissues.

Cited by: 156

Author: Lauren E. Kokai, Kacey Marra, J. Peter ...

Publish Year: 2014

Match Overview

1 Internet 16 words
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www.mdpi.com

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1 **Name of Journal:** *World Journal of Stem Cells*

2 **Manuscript NO:** 49591

3 **Manuscript Type:** EDITORIAL

4

5 **Adipose stromal/stem cells in regenerative medicine: Potentials and limitations**

6

7 Baptista LS. ASCs: potentials and limitations

8

9 Leandra Santos Baptista

10

11 **Abstract**

12 This article presents the stem and progenitor cells from subcutaneous adipose tissue,

13 briefly comparing them with their bone marrow counterparts, and discussing their

14 potential for use in regenerative medicine. Subcutaneous adipose tissue differs from

BAdipose stromal/stem cells in regenerative medicine: Potenti



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Adipose Tissue-Derived Stem Cells in Regenerative Medicine

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5040903>

Jul 26, 2016 · Stromal cells from the **adipose tissue-derived stromal vascular fraction** and culture expanded **adipose tissue-derived stromal/stem cells**: a joint statement of the International Federation for **Adipose Therapeutics and Science (IFATS)** and the International Society for **Cellular Therapy ...**

Cited by: 109

Author: Laura Frese, Pe Petra Dijkman, S Simon ...

Publish Year: 2016

The Potential of Adipose Stem Cells in Regenerative Medicine

<https://link.springer.com/article/10.1007/s12015-010-9193-7> ▼

Sep 18, 2010 · Importantly, unlike the human bone marrow **stromal/stem stem cells (BMSCs)** that are present at low frequency in the bone marrow, **ASCs** can be retrieved in high number from either liposuction aspirates or subcutaneous **adipose tissue** fragments and can easily be expanded in vitro.

Cited by: 386

Author: Bettina Lindroos, Riitta Suuronen, Riitta ...

Publish Year: 2011

[PDF] The Potential of Adipose Stem Cells in Regenerative ...

https://www.researchgate.net/profile/Susanna_Miettinen/publication/46307264_The...

bone marrow **stromal/stem cells (BMSCs)** have become a standard in the field of adult **stem cell biology** and in regenerative medicine due to their high differentiation

Adipose-derived stem cells: Fatty potentials for therapy ...

<https://www.sciencedirect.com/science/article/abs/pii/S1357272513000599>

Adipose-derived **stem cells (ASCs)** are the **mesenchymal stem cell (MSC)** population found in the stromal-vascular fraction (SVF) of fat tissue. White adipose tissue (WAT), with well-established roles in lipid storage and adipokine secretion, is advantageous over **bone marrow** as the source of **MSCs** due to relative abundance and ease of isolation of the tissue.

Cited by: 113

Author: Wee Kiat Ong, Shigeki Sugii, Shigeki Sugii

Publish Year: 2013



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Adipose Tissue-Derived Stem Cells in Regenerative Medicine

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5040903>

Jul 26, 2016 · Abstract. In **regenerative medicine**, **adult stem cells** are the most promising cell types for **cell-based therapies**. As a new source for **multipotent stem cells**, **human adipose tissue** has been introduced. These so called **adipose tissue-derived stem cells (ADSCs)** are considered to be ideal for application in **regenerative therapies**.

Cited by: 109

Author: Laura Frese, Pe Petra Dijkman, S Simon ...

Publish Year: 2016

Adipose-Derived Stem Cells in Regenerative Medicine ...

<https://www.sciencedirect.com/science/article/pii/B9780128035061000504>

Adipose-derived stem cells (ASCs) seem to be an ideal population of **stem cells** for practical **regenerative medicine** because they are not subject to the same restrictions. Additionally, because of their **autologous tissue origin**, they are **nonimmunogenic**, and are **plentiful** and easy to harvest.

Author: Hiroshi Mizuno, Morikuni Tobita, Rei ...

Publish Year: 2017

The Potential of Adipose Stem Cells in Regenerative Medicine

<https://link.springer.com/article/10.1007/s12015-010-9193-7> ▾

Sep 18, 2010 · **Adipose stem cells (ASCs)** are an attractive and **abundant stem cell** source with **therapeutic applicability** in diverse fields for the **repair and regeneration** of acute and chronically damaged tissues.

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Author: Bettina Lindroos, Riitta Suuronen, Riitta ...

Publish Year: 2011

Adipose Stem Cell Therapy | Regenerative Medicine 101

<https://stemcellpowernow.com/adipose-stem-cell-therapy> ▾

Jun 26, 2019 · **Adipose-derived stem cell therapy (AKA adipose stem cell therapy)** has been taking the medical community by storm ever since it helped heal golf legend Jack Nicklaus' back pain in March 2016. Even before that, they were being tested extensively for clinical applications. Now that we know