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Adult Stem Cells Spheroids to Optimize Cell Colonization in ...

<https://www.ncbi.nlm.nih.gov/articles/PMC5983745> ▾ 이 페이지 번역하기

LS Baptista 저술 - 2018 - 6회 인용 - 관련 학술자료

2018. 4. 25. - In **spheroid** culture, **adult stem cells** are responsible for their extracellular matrix synthesis, re-creating structures at the **tissue level**. ... Furthermore, **spheroids** exhibit potent angiogenic and vasculogenic capacity and serve as efficient vascularization units in porous scaffolds for **bone tissue engineering**.

ENGINEERING PRINCIPLES FOR GUIDING SPHEROID ...

<https://www.ncbi.nlm.nih.gov/articles/PMC5898817> ▾ 이 페이지 번역하기

MA Gionet-Gonzales 저술 - 2018 - 5회 인용 - 관련 학술자료

2018. 3. 21. - **Adipose stromal cells** can be isolated in large numbers from the donor for (32) **Mesenchymal stem/stromal cells (MSCs)** from **bone marrow**, **adipose tissue** ... the **regeneration of cartilage** and **subchondral bone** in microminipigs after The use of **spheroids as building blocks** is motivated by eliminating the ...

Life is 3D: Boosting Spheroid Function for Tissue Engineering ...

<https://www.cell.com/biotechnology/comments> - 이 페이지 번역하기

2016. 9. 12. - **Spheroids** are increasingly used as **building blocks** in **tissue engineering**, ... towards the use of **spheroids as building blocks for tissue engineering**. In fact, the differentiation of multipotent **mesenchymal stem cells (MSCs)** into ... express higher levels of **stromal cell-derived factor (SDF)-1** [chemokine CXC ...

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 49591

Manuscript Type: MINIREVIEWS

Cartilage and bone tissue engineering using adipose stromal/stem cells spheroids as building blocks

Kronemberger GS *et al.* Cartilage and bone engineering using spheroids

Gabriela S Kronemberger, Renata AM Matsui, Guilherme ASC Miranda, José M Granjeiro, Leandra S Baptista

Abstract

Scaffold-free techniques in developmental tissue engineering area are designed to

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1	Internet 28 words crawled on 27-Jul-2018 d-nb.info	1%
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Cartilage Regeneration in Human with Adipose Tissue ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4736810>

Adipose tissue-derived **stem cells** (ADSCs) are one type of MSCs. In 2001 and 2002, Zuk et al. showed that **adipose tissue** in the form of **stromal** vascular fraction (SVF) contains **stem cells** that have the capacity to differentiate into **cartilage**, **bone**, muscle, and **adipose tissue**, similar to MSCs [13, 14]. Likewise, ADSCs also have been investigated ...

Cited by: 24

Author: Jaewoo Pak, Jung Hun Lee, Wiwi Andrali...

Publish Year: 2016

Injectable hydrogels for cartilage and bone tissue engineering

<https://www.nature.com/articles/boneres201714>

May 30, 2017 · A novel injectable scaffold for **cartilage tissue engineering using adipose** ... Cohen S et al. Human **adipose**-derived **stromal cells** in a ... mesenchymal **stem cell** paste for **bone tissue engineering**.

Cited by: 175

Author: Mei Liu, Xin Zeng, Chao Ma, Huan Yi, Ze...

Publish Year: 2017

Author: Mei Liu

Using Stem Cells to Build New Bones: A Tissue Engineering ...

https://stemcells.nih.gov/info/Regenerative_Medicine/2006Chapter11.htm ▾

Because **bone** marrow **stromal cells** (BMSCs) contain a subset of **stem cells** (also called mesenchymal **stem cells**, multipotent **stromal cells**, or skeletal **stem cells**) that can differentiate into osteoblasts, these **stem cells** play a vital role in the "**tissue engineering**" of new **bone**. This article will highlight research on the **use** of BMSCs to provide ...

Cartilage-like gene expression in differentiated human ...

https://www.researchgate.net/publication/10913345_Cartilage-like_gene_expression_in...

Request PDF on ResearchGate | **Cartilage**-like gene expression in differentiated human **stem cell spheroids** - A comparison of **bone** marrow-derived and **adipose tissue**-derived **stromal cells** | ...

Adult Stem Cells Spheroids to Optimize Cell Colonization ...

<https://www.mdpi.com/1422-0067/19/5/1285/htm> ▾

Top-down **tissue engineering** aims to produce functional tissues **using** biomaterials as scaffolds, thus providing cues for **cell** proliferation and differentiation. Conversely, the bottom-up approach aims to precondition **cells** to form modular tissues units (**building-blocks**) represented by **spheroids**. In spheroid culture, adult **stem cells** are responsible for their extracellular matrix synthesis, re ...

Cited by: 1

Author: Leandra Santos Baptista, Gabriela Soare...

Publish Year: 2018



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Adipose Tissue-Derived Stem Cells in Regenerative Medicine

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

Jul 26, 2016 · 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: 117

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

Publish Year: 2016

[PDF] Adult Stem Cells Spheroids to Optimize Cell Colonization ...

<https://www.mdpi.com/1422-0067/19/5/1285/pdf>

approach aims to precondition cells to form modular tissues units (building-blocks) represented by spheroids. In spheroid culture, adult stem cells are responsible for their extracellular matrix synthesis, re-creating structures at the tissue level. Spheroids from adult stem cells can be considered

Cited by: 4

Author: Leandra Santos Baptista, Gabriela Soare...

Publish Year: 2018

Cartilage Regeneration in Human with Adipose Tissue ...

<https://www.hindawi.com/journals/bmri/2016/4702674> ▾

In 2001 and 2002, Zuk et al. showed that adipose tissue in the form of stromal vascular fraction (SVF) contains stem cells that have the capacity to differentiate into cartilage, bone, muscle, and adipose tissue, similar to MSCs [13, 14]. Likewise, ADSCs also have been investigated in treatment of cartilage injuries and osteoarthritis in animals.

Cited by: 29

Author: Jaewoo Pak, Jung Hun Lee, Wiwi Andrali...

Publish Year: 2016

Using Stem Cells to Build New Bones: A Tissue Engineering ...

https://stemcells.nih.gov/info/Regenerative_Medicine/2006Chapter11.htm ▾

Because bone marrow stromal cells (BMSCs) contain a subset of stem cells (also called mesenchymal stem cells, multipotent stromal cells, or skeletal stem cells) that can differentiate into osteoblasts, these stem cells play a vital role in the "tissue engineering" of new bone. This article will highlight research on the use of BMSCs to provide ...