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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

Match Overview

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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 ...

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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 ▼

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