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Basic Study

Pericyte-like differentiation of human adipose-derived mesenchymal stem cells: An *in vitro* study

Giuliana Mannino, Florinda Gennuso, Giovanni Giurdanella, Federica Conti, Filippo Drago, Salvatore Salomone, Debora Lo Furno, Claudio Bucolo, Rosario Giuffrida

Abstract

BACKGROUND

Adipose-derived mesenchymal stem cells (ASCs) are characterized by long-term self-renewal and a high proliferation rate. Under adequate conditions, they may differentiate into cells belonging to mesodermal, endodermal or ectodermal lineages. Pericytes support endothelial cells and play an important role in stabilizing the vessel

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Author: Shane Gao, Xuanxuan Guo, Simeng ... **Publish Year:** 2019

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Dec 29, 2012 · **Stem cells** with the ability to **differentiate** into **insulin-producing cells** (IPCs) are becoming the most promising therapy for diabetes mellitus and reduce the major limitations of availability and allogeneic rejection of **beta cell** transplantations. **Mesenchymal stem cells** (MSCs) are **pluripotent stromal cells** with the ability to proliferate and **differentiate** into a variety of **cell** types including **endocrine cells** of the **pancreas**.

Cited by: 32 **Author:** P. Rahnamay Moshtagh, P. Rahnamay M...

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Neuron-like Differentiation of Adipose-Derived Stem Cells ...
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Oct 26, 2006 · Adipose-derived stem cells (ADSCs) are mesenchymal stem cells (MSCs) that can be extracted from adipose tissue and obtained by a less invasive method and in larger quantities compared with bone marrow–derived MSCs. The objective of this study was to harvest ADSCs from piglets and to explore their neuronal differentiation potential.
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Human Adipose-derived Pericytes Display Steroidogenic ...
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Oct 21, 2019 · Steroidogenic Potential of hAd-PSCs in vitro. Human adipose-derived perivascular stem cells are multipotent stem/progenitor cells with myogenic, osteogenic and ...
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Single-cell RNA-seq of cultured human adipose-derived ...
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6390702>
Feb 26, 2019 · Mesenchymal stem cells (MSCs) are multipotent adult stem cells capable of self-renewal and differentiation into mesodermal lineages such as osteocytes, adipocytes and chondrocytes, as well as endodermal and ectodermal lineages 1. MSCs show considerable promise for clinical applications in cell therapy and regenerative medicine, especially because they are easily accessible and hold no ethical concerns, in contrast to embryonic stem cells.
Cited by: 15Author: Xuanyu Liu, Qinqin Xiang, Fen Xu, Jiuzuo H...
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Human pluripotent stem cell–derived brain pericyte–like ...
<https://advances.sciencemag.org/content/5/3/eaau7375>
Mar 01, 2019 · The brain pericyte–like cells induced blood-brain barrier properties in BMECs, including barrier enhancement and reduced transcytosis. Last, brain pericyte–like cells were incorporated with iPSC-derived BMECs, astrocytes, and neurons to form an isogenic human model that should prove useful for the study of the NVU.
Cited by: 24Author: Matthew J. Stebbins, Benjamin D. Gastfrie...
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A Perivascular Origin for Mesenchymal Stem Cells in ...
[https://www.cell.com/cell-stem-cell/fulltext/S1934-5909\(08\)00337-8](https://www.cell.com/cell-stem-cell/fulltext/S1934-5909(08)00337-8)
Sep 11, 2008 · Mesenchymal stem cells (MSCs), the archetypal multipotent progenitor cells derived in cultures of developed organs, are of unknown identity and native distribution. We have prospectively identified perivascular cells, principally pericytes, in multiple human organs including skeletal muscle, pancreas, adipose tissue, and placenta, on CD146, NG2, and PDGF-Rβ expression and absence of ...

Human adipose-derived stem cells: Isolation ...
<https://www.sciencedirect.com/science/article/pii/S2211425411000069>
Jun 01, 2011 · Cells exhibit characteristics similar to those of mesenchymal stem cells, i.e., they have the capacity for self-renewal, as cells can be expanded in vitro for more than 20 population doublings (i.e., around 30 passages in our hands so far) while maintaining a normal diploid karyotype and the potential to undergo differentiation into adipocytes ...

The responses of human adipose-derived mesenchymal stem ...
<https://link.springer.com/10.1007/s13770-014-0015-x>
May 22, 2014 · In this study, the biological responses of human adipose-derived mesenchymal stem cells (hADSCs) on PCL-based scaffolds were investigated in vitro. The hADSCs were isolated and characterized. Solvent casting and particulate leaching method was employed as the fabrication method for PCL-based scaffolds.

Human Adipose-Derived Stem Cells Promote Seawater-Immersed ...
<https://www.hindawi.com/journals/sci/2019/7135974>
Human adipose-derived stem cells (ADSCs) are multidirectional differentiation potential stem cells extracted from adipose tissue. ADSCs can migrate to a damaged site and differentiate into skin appendages to repair damaged skin through their multidirectional differentiation potential [5 – 8].

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Transdifferentiation of Adipose-Derived Stem Cells into ...

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Human adipose-derived stem cells (ASC) have been shown to **differentiate** in-vitro into both **mesenchymal lineages** and **non-mesenchymal lineages**, confirming their transdifferentiation ability. This versatile **differentiation potential**, coupled with their ease of harvest, places ASC at the advancing front of **stem cell-based** therapies.

Neuron-like Differentiation of Adipose-Derived Stem Cells ...

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Oct 26, 2006 · **Adipose-derived stem cells (ADSCs)** are **mesenchymal stem cells (MSCs)** that can be extracted from adipose tissue and obtained by a less invasive method and in larger quantities compared with bone marrow-derived MSCs. The objective of this **study** was to harvest ADSCs from piglets and to explore their neuronal **differentiation** potential.

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