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Bioactive factors secreted from mesenchymal stromal cells ...

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Accordingly, MSC play a crucial role in maintaining immune homeostasis by interacting with **immune cells** via **bioactive factors**, **cell surface proteins** and **metabolic pathways** , . These results indicate the potential use of **chorion-derived MSCs** and their **bioactive factors** as a tool for investigating the mechanisms behind inflammatory disorders.

Author: Fabiany Da Costa Gonçalves, Michele... **Publish Year:** 2018

Concise Review: MSC-Derived Exosomes for Cell-Free ...

<https://stemcells.journals.onlinelibrary.wiley.com/doi/full/10.1002/...>

Mesenchymal stem/stromal cells (MSCs) are one of the most commonly employed **cell** types under investigation as an experimental **cell-based therapy** for treating human **diseases**. There are over 600 clinical trials now listed at www.clinicaltrials.gov utilizing MSCs.

Cited by: 139

Author: Donald G. Phinney, Mark F. Pittenger

Publish Year: 2017

[PDF] Mesenchymal Stem Cell-derived Extracellular Vesicles ...

<https://www.cell.com/molecular-therapy-family/molecular-therapy/...>

ment for muscular dystrophies using bone marrow (BM)-**derived** myogenic progenitor **cells**. Since then numerous stem **cell** types have been investigated for use in tissue regeneration in both ani-mal models and human clinical studies, with varying degrees of success. **Mesenchymal stem (or stromal) cells** (MSCs) have emerged

Mesenchymal Stromal Cells Based Therapy in Systemic ...

<https://www.frontiersin.org/articles/10.3389/fimmu.2018.02013/full> ▾

Pro-angiogenic, anti-inflammatory, and immunomodulatory properties of multipotent mesenchymal stromal cells (MSCs) make them ideal candidates for targeted cell-based therapy capable of restoration of immune functionality or in other words, immune “reboot” in autoimmune diseases.

Cited by: 1

Author: Juliette Peltzer, Marc Aletti, Nadira Fresc...

Publish Year: 2018

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Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 46603

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Cell membrane and bioactive factors derived from mesenchymal stromal cells: Cell-free based therapy for inflammatory bowel diseases

da Costa Gonçalves F *et al.* MSC-based therapy for IBD

Fabiany da Costa Gonçalves, Ana Helena Paz

Abstract

Inflammatory bowel diseases (IBD) are chronic inflammatory disorders of the gastrointestinal tract associated with multifactorial conditions such as ulcerative colitis



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Cell membrane and bioactive factors derived from mesenchymal stromal cells: Cell



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May 01, 2015 · **Mesenchymal stem (stromal) cells (MSCs)** are **multipotent cells** with the ability to differentiate into several **cell types**, thus serving as a **cell reservoir** for regenerative medicine. Much of the current interest in therapeutic application of **MSCs** to various disease settings can be linked to their immunosuppressive and **anti-inflammatory properties**.

Cited by: 273

Author: Sweta Rani, Aileen E Ryan, Matthew D ...

Publish Year: 2015

Mesenchymal stem cell therapy: A promising cell-based ...

https://www.researchgate.net/publication/320448368_Mesenchymal_stem_cell_therapy_A...

Exosomes, derived from mesenchymal stem cells, hold promising **potential** for **cell-free therapy** due to multiple abilities, such as promoting **proliferation** and **suppressing apoptosis**.

The mesenchymal stem cell secretome: A new paradigm ...

<https://www.sciencedirect.com/science/article/pii/S1359610119300243>

Harvest and in vitro culture expansion of **MSC** obtained from different anatomical locations yields potentially therapeutic products such as **MSC and MSC-CM** both of which are rich in **growth factors**, cytokines, interleukins, etc. Potential therapeutic applications of **MSC and MSC-CM** would be **cell-based** and **cell-free** therapy respectively.

Author: L Praveen Kumar, Sangeetha Kandoi, ... Publish Year: 2019

Mesenchymal stem cell-based drug delivery strategy: from ...

<https://www.sciencedirect.com/science/article/pii/S0168365918307223>

Jan 28, 2019 · The process is navigated by various chemokine gradients, especially chemokine **stromal derived factor 1 (SDF-1)** released by the injury or tumor site, whose receptor is **CXCR4**. ... **stem cells-based cell therapy** systems have been widely explored in medical researches for enhancing therapeutic effects, especially in the fields of regeneration and ...

Author: Hong-Hui Wu, Yi Zhou, Yasuhiko Taba... Publish Year: 2019



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Mesenchymal Stem Cell-derived Extracellular Vesicles ...

[https://www.cell.com/molecular-therapy-family/molecular-therapy/fulltext/S1525-0016\(16...](https://www.cell.com/molecular-therapy-family/molecular-therapy/fulltext/S1525-0016(16...) ▾

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Author: L Praveen Kumar, Sangeetha Kandoi,...

Publish Year: 2019

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Concise Review: Mesenchymal Stromal Cells Anno 2019: ...

<https://stemcells.journals.onlinelibrary.wiley.com/doi/10.1002/sctm.19-0073>

2018 was the year of the first marketing authorization of an allogeneic stem cell therapy by the European Medicines Agency. The authorization concerns the use of allogeneic adipos

Frontiers | Mesenchymal Stem Cell-Derived Extracellular ...

<https://www.frontiersin.org/articles/10.3389/fneur.2019.00211> ▾

Mar 12, 2019 · Adult stem cells, such as mesenchymal stem cells (MSCs) may be a good option for stroke therapy, as they secrete a variety of bioactive substances, including trophic factors and extracellular vesicles (EVs, 30 nm–1 µm sized circular membrane fragments shed from the cell surface) into the injured brain, which is associated with enhanced neurogenesis, angiogenesis, and synaptogenesis ...

Author: Oh Young Bang, Eun Hee Kim, Eun H...

Publish Year: 2019

Mesenchymal stem cell therapy: A promising cell-based ...

<https://onlinelibrary.wiley.com/doi/10.1002/jgm.2995>

Oct 16, 2017 · Stem cells are clonogenic cells that have two remarkable features: the ability to