Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 58985

Manuscript Type: REVIEW

Mesenchymal stem cell-derived small extracellular vesicles in the treatment of human diseases: progress and prospect

MSC-sEVs in human diseases

Jie Shi, Yu-Chen Zhao, Zhi-fang Niu, Hao-jun Fan, Shi-ke Hou, Xiao-qin Guo, Lu Sang, Qi Lv

Mesenchymal Stem Cell-Derived Extracellular Vesicles ...

https://www.frontiersin.org/articles/10.3389/fcell.2020.00149

Mar 12, 2020 · **Mesenchymal stem cells** (**MSCs**) are studied most extensively for their **therapeutic roles**, which appear to be **derived** from their **paracrine activity**. Recent studies suggest a **critical therapeutic role** for **extracellular vesicles** (**EV**) **secreted** by **MSCs**.

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Mesenchymal Stem Cell-Derived Extracellular Vesicle ...

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Mar 12, 2019 · **Stroke** is the leading cause of physical disability among adults. Stem cells such as mesenchymal stem cells (MSCs) secrete a variety of **bioactive substances**, including **trophic factors** and extracellular vesicles (EVs), into the **injured brain**, which may be associated with **enhanced neurogenesis**, **angiogenesis**, and **neuroprotection**.

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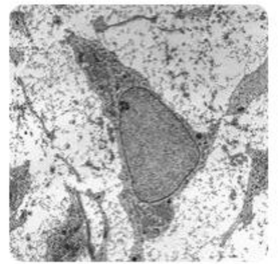

Mesenchyma cells (MSCs) known as mesenchyma cells or medi signaling cell multipotent stromal cells that can differentiate into a variety of cell ty including osteoblasts (bone cells), chondrocytes (cartilage cells), myo (muscle cells) and adipocytes (fat which give rise to marrow adipose

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Cited by: 18 **Author:** Oh Young Bang, Eun Hee Kim, Eun Hee Kim...
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Mesenchymal Stem Cell-Derived Extracellular Vesicles and ...

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Mesenchymal stem cells (**MSCs**) are **multipotent cells** with many therapeutic applications and have also gained much attention as prolific producers of EVs. **MSC-derived EVs** are being explored as a **therapeutic** alternative to MSCs since they may have **similar therapeutic effects** but are **cell-free**.

Author: Ashley G. Zhao, Kiran Shah, Brett Crom... **Publish Year:** 2020

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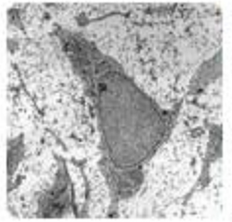

Mesenchymal stem cells (MSCs) also known as mesenchymal stromal cells or medicinal signaling cells are multipotent stromal cells that can differentiate into a variety of cell types, including osteoblasts (bone cells), chondrocytes (cartilage cells), myocytes (muscle cells) and adipocytes (fat cells which give rise to marrow adipose tissue).

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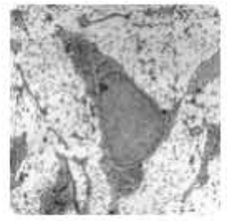

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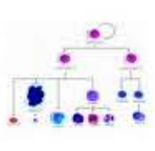
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