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Name of Journal: *World Journal of Stem Cells*

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Generation of mesenchymal stem-like cells for producing extracellular vesicles

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Soo Kim, Tae Min Kim

Abstract

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It has been demonstrated that the biological **effector** of mesenchymal stem/**stromal** cells (MSCs) is their secretome, which is composed of a heterogeneous pool of bioactive **molecules**, partially **enclosed** in extracellular vesicles (EVs). Therefore, the **MSC secretome** (including EVs) has been recently proposed as possible alternative to MSC **therapy**.

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Mesenchymal Stem Cell-derived Extracellular Vesicles ...

www.ncbi.nlm.nih.gov › ... › Mol Ther › v.23(5); 2015 May

Apr 14, 2015 · Introduction. Mesenchymal stem (or **stromal**) cells (MSCs) have emerged as a potential solution for tissue repair and wound healing. 2 **MSCs** are multipotent, nonhematopoietic adult stem cells, which can be isolated from BM, **umbilical cord**, 3,4 **placental** or adipose tissue. **MSCs** have the potential to differentiate into osteoblasts, chondrocytes,...

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Feb 09, 2016 · **Mesenchymal Stem Cell-Derived Extracellular Vesicles Promote Angiogenesis:** Potencial Clinical Application Consuelo Merino-González , 1 Felipe A. Zuñiga , 1 Carlos Escudero , 2, 3 Valeska Ormazabal , 4 Camila Reyes , 1 Estefanía Nova-Lamperti , ...

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Moreover, Wen et al. showed that both murine and human MSC-derived extracellular vesicles can reverse radiation damage 93. Blazquez et al. further reported that exosomes derived from human adipose MSCs can inhibit the differentiation and activation of T cells and reduce IFN- γ production by stimulated T cells in vitro 94. Based on these findings, we hypothesize that MSC exosomes could have therapeutic ...

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