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Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 57725

Manuscript Type: REVIEW

Multifunctional role of microRNA in mesenchymal stem cell-derived exosomes in the treatment of diseases

Hui-Kang Xu, Li-Jun Chen, Si-Ning Zhou, Yi-Fei Li, Charlie Xiang

Abstract

Mesenchymal stem cells can be replaced by exosomes for the treatment of inflammatory diseases, injury repair, degenerative diseases, and tumors. Exosomes are small vesicles rich in a variety of nucleic acids [including messenger RNA, Long non-coding RNA, microRNA (miRNA), and circular RNA], proteins, and lipids. Exosomes can be secreted by most cells in the human body and are known to play a key role in the communication of information and material transport between cells.

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Background: Recent studies have shown the great value of cell therapy over the past few decades.

Mesenchymal stem cells (MSCs) have been reported to treat various degenerative **diseases** not through their differentiation potential but through their paracrine factors of the extracellular vesicle (EV) including **exosomes**.

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