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Mesenchymal stem cells from different sources and their derived exosomes:
A pre-clinical perspective

María Álvarez-Viejo

Abstract

Several decades ago, cell therapy emerged as a promising strategy for the treatment of many diseases. Since then, mesenchymal stem cells have been identified as ideal candidates, producing beneficial effects in several tissues, yet the underlying mechanisms for these effects are only partially understood. At the start of the 21st century, a paracrine effect was proposed as a mechanism of tissue repair by these cells. In addition, a role was suggested for extracellular vesicles in cell-to-cell communication. These extracellular vesicles, a heterogeneous population including exosomes, have been isolated from most

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