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Co-culture of BM2 and bone marrow mesenchymal stem cells (BM-MSCs) revealed suppression of proliferation, a decrease in stem cell-like properties, and inhibition of invasion in BM2 cells. MiR-23b derived from BM-MSCs can induce dormancy through the suppression of a target gene, myristoylated alanine-rich C kinase substrate (MARCKS), which ...

Cited by: 1 Author: Aiko Sueta, Yutaka Yamamoto, Hirotaika I...

Publish Year: 2019

Role of exosomal microRNAs in lung cancer biology and ...

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May 11, 2020 · Role of exosomal microRNAs in lung cancer biology and clinical applications. Chengping Hu. ... including that of lung cancer, transfer of exosomal miRNA between cancer and stromal cells has been demonstrated to be linked with cancer initiation and ... Hypoxic bone marrow-derived mesenchymal stem cells: NSCLC cell lines including H358, A549 ...

Cited by: 11 Author: Chengping Hu, Silke Meiners, Christina L...

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Mesenchymal stem cells-derived exosomal microRNAs ...

<https://link.springer.com/article/10.1007/s11427-016-0240-4> ▾

Nov 18, 2016 · Mesenchymal stem cells (MSCs) possess potent immunomodulatory properties and facilitate tissue repair by releasing exosomes, which generate a suitable microenvironment for inflammatory resolution. Exosomes contain several effective bioactive molecules and act as a cell-cell communication vehicle to influence cellular activities in recipient cells.

Cited by: 85 Author: Dongdong Ti, Haojie Hao, Xiaobing Fu, W...

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PDF | Exosomal MicroRNAs from Mesenchymal Stem/stromal Cells ...
<https://health.ucdavis.edu/mdprogram/research/pdfs...>

• Mesenchymal stem (MSCs) are extensively studied as cell-therapy agents for neurological diseases. • Recent studies consider exosomal microRNAs secreted by MSCs as important mediators for MSCs' neuroprotective functions. • Exosomal miRNAs have significant therapeutic potential for neurological disorders such as stroke, traumatic brain injury, and neuroinflammatory or neurodegenerative diseases.

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Gene regulatory networks in AML may be influenced by microRNAs (miRs) contained in exosomes derived from bone marrow mesenchymal stromal cells (MSCs). We sequenced miRs from exosomes isolated from marrow-derived MSCs from patients with AML ...

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<https://www.researchgate.net/publication/344242515...>

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Exosomal MicroRNAs Derived From Umbilical Mesenchymal Stem ...

<https://stemcellsjournals.onlinelibrary.wiley.com/doi/full/10.5966/sctm.2015-0348>

Aug 05, 2016 Umbilical mesenchymal stem cell-secreted exosomes inhibited hepatitis C virus infection through transporting a mixture of microRNAs complementing the viral genomes to the host cells. This finding provides insights and prospects for physiologically secreted substances for antiviral therapy.

Cited by: 87 Author: Xijing Qian, Chen Xu, Shuo Fang, Ping Zhao...
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Manuscript NO: 63989

Manuscript Type: REVIEW

Exosomal microRNAs from mesenchymal stem/stromal cells: Biology and applications in neuroprotection

Nasirishargh A *et al.* Neuroprotective exosomal microRNAs from MSCs

Aida Nasirishargh, Priyadarsini Kumar, Lalithasri Ramasubramanian, Kaitlin Clark, Dake Hao, Sabrina I. Lazar, Ai-Jun Wang

Abstract

Mesenchymal stem/stromal cells (MSCs) are extensively studied as cell-therapy agents for neurological diseases. Recent studies consider exosomes secreted by MSCs as important mediators for MSCs' neuroprotective functions. Exosomes transfer functional molecules including proteins, lipids, metabolites, DNAs, and coding and non-coding

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What's the difference between an exosome and a microRNA?



How are mesenchymal stem cells used to treat diseases?



What kind of proteins can be found in MSC exosomes?



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<https://pubmed.ncbi.nlm.nih.gov/27496568>

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