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Mesenchymal stem cells (MSCs), defined as plastic adherent cells with multipotent differentiation capacity in vitro, are an emerging and valuable tool to treat a plethora of diseases due to their therapeutic mechanisms such as their paracrine activity, mitochondrial and organelle transfer, and transfer of therapeutic molecules via exosomes. Nowadays, there are more than a thousand registered ...

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Mesenchymal Stem Cell-Dependent Modulation of Liver Diseases

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A variety of animal models have been used to study the mechanisms of **acute liver** injury, such as those **induced** by **chemical** substances, metabolic substances, infectious pathogens and surgery models.

Concanavalin A (Con A)-**induced liver** injury is a well-established murine model of immune- ...

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Acute liver failure and cirrhosis display sequential and overlapping severe pathogenic processes that include inflammation, hepatocyte necrosis, and fibrosis, carrying a high mortality rate. **Mesenchymal** stem cells (MSCs) are a heterogeneous subset of **stromal** stem ...

Multipotent mesenchymal stromal cells: A promising ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4698489>

Jan 07, 2016 · Core tip: Chronic alcohol consumption is a major cause of **liver disease**. Stem cells, in particular multipotent **mesenchymal stromal** cells (MSCs), have been envisioned as a promising tool for the development of therapeutic strategies to treat alcoholic **liver** diseases (ALD).

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 59909

Manuscript Type: MINIREVIEWS

Mesenchymal stromal cell-dependent immunoregulation in chemically induced acute liver failure

Stem cell therapy in ALF

Abstract

Drug-induced liver injury (DILI), which refers to liver damage caused by a drug or its metabolites, has emerged as an important cause of acute liver failure (ALF) in recent years. Chemically induced ALF in animal models mimics the pathology of DILI in humans; thus, these models are used to study the mechanism of potentially effective treatment strategies. Mesenchymal stromal cells (MSCs) possess immunomodulatory properties and they alleviate acute liver injury and decrease the mortality of animals with chemically induced ALF. Here, we summarize some of the existing

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Mesenchymal stem cells (MSCs) are a heterogeneous subset of stromal stem cells with immunomodulatory characteristics.

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Publish Year: 2017

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The autoimmune diseases are characterized by overactivation of immune cells, chronic inflammation, and immune response to self-antigens, leading to the damage and dysfunction of multiple organs. Patients still do not receive desired clinical outcomes while suffer from various adverse effects imparted by current therapies. The therapeutic strategies based on mesenchymal stromal cell (MSC) ...

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