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Recent developments in mesenchymal stem cell (MSC)-based approaches for treating musculoskeletal injuries have led to the application of MSCs for enhancing healing after ACL injuries. The purpose of this article is to review recent pre-clinical and clinical studies using MSCs for the enhancement of biologic healing of ACL injuries.

Cited by: 5 Author: Ki Mo Jang, Hong Chul Lim, Ji Hoon Bae

Publish Year: 2015

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Recent developments in mesenchymal stem cell (MSC)-based approaches for treating musculoskeletal injuries have led to the application of MSCs for enhancing healing after ACL injuries.

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A partial or complete tear of a specific ligament in the knee.

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Mesenchymal Stem Cells for Enhancing Biological Healing after Meniscal Injuries

Jang KM *et al.* MSCs for meniscal healing

Abstract

The meniscus is a semilunar fibrocartilage structure that plays important roles in maintaining normal knee biomechanics and function. The roles of the meniscus, including load distribution, force transmission, shock absorption, joint stability, lubrication, and proprioception, have been well established. Injury to the meniscus can disrupt overall joint stability and cause various symptoms including pain, swelling, giving-way, and locking. Unless treated properly, it can lead to early degeneration of the knee joint. Because meniscal injuries remain a significant challenge due to its low

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Publish Year: 2015

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transfer, tissue engineering and stem cells, have been proposed and applied to **enhance tendon-bone healing**. Among these, stem cell therapy has been shown to have promising prospects and draws increasing attention. From commonly investigated bone **marrow-derived mesenchymal stem cells (bMSCs)** to emerging ACL-derived CD34+ stem

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Author: Zi-Chen Hao, Shan-Zheng Wang, Xue-Jun...

Publish Year: 2016

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<https://stemcellres.biomedcentral.com/track/pdf/10.1186/s13287-015-0077-2>

Mesenchymal stem cell sources MSCs can be isolated from various anatomical locations, with bone marrow-derived **mesenchymal stem cells (BM-MSCs)** used most commonly for **meniscus TE** followed