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Transplantation of aggregates of synovial **mesenchymal stem cells** (MSCs) enhanced **meniscus** regeneration in rats. Anatomy and **biological** properties of the **meniscus** depend on animal species. To apply this technique clinically, it is valuable to investigate the use of animals genetically close to humans.

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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

[PDF] [Stem cell therapy: a promising biological strategy for ...](https://onlinelibrary.wiley.com/doi/pdf/10.1111/cpr.12242)

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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**

Cited by: 60 Author: Zi-Chen Hao, Shan-Zheng Wang, Xue-Jun...

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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