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Mesenchymal stem cells for cartilage regeneration in osteoarthritis

Baldur Kristjánsson, Sittisak Honsawek

Abstract

Osteoarthritis is slowly progressive where cartilage of the synovial joint degenerates. It is most common in the elderly where patients experience pain and reduce physical activity. In combination with lack of conventional treatment, patients are often left with no other choices than arthroplasty. Over the last years, multipotent stromal cells have been used in efforts to treat osteoarthritis. Mesenchymal stem/progenitor cells (MSCs) are stromal cells that can differentiate into bone, fat, and cartilage cells. They reside within bone marrow and fat. MSCs can also be found in synovial joints where

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