

**A GUIDE FOR PATIENTS**

# **LITERATURE**

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# ❖ Ankylosing Spondylitis

## ➤ Mesenchymal stem cells provide novel insights into Ankylosing spondylitis

Ankylosing spondylitis (AS), also known as Bechterew's disease or Marie–Strümpell disease, is an inflammatory disease primarily involving the joints of the spine and pelvis [1]. The cause is unknown; however, genetic factors, environmental triggers, and autoimmunity are all strongly implicated.

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## ➤ Ankylosing spondylitis and mesenchymal stromal/stem cell therapy: A new therapeutic approach

Ankylosing spondylitis (AS) is an inflammatory rheumatoid disease categorized within spondyloarthropathies (SpA) and manifested by chronic spinal arthritis. Several innate and adaptive immune cells and secreted-mediators have been indicated to play a role in AS pathogenesis.

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## ➤ **Enhanced osteogenic differentiation of mesenchymal stem cells in ankylosing spondylitis: a study based on a three-dimensional biomimetic environment**

The mechanism of pathological osteogenesis in Ankylosing spondylitis (AS) is largely unknown. Our previous studies demonstrated that the imbalance between BMP-2 and Noggin secretion induces abnormal osteogenic differentiation of marrow-derived mesenchymal stem cells (MSCs) from AS patients in a two-dimensional culture environment.

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