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Bone Marrow Aspirate Concentrate and Expanded Stem Cell Applications in Orthopaedics

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About the eBook

This reference presents insights into the development of bone marrow aspirate stem cell (BMAC) technology and the potential role of stem cell expansion in the regeneration of damaged and deficient musculoskeletal tissues. The book features valuable contributions from stem cell therapy experts from around the world. The authors explain the production, proliferation, differentiation into various tissues, and medical applications of stem cells.

Contents

- ▶ Basic Sciences Behind BMAC and Expanded Stem Cells
- ▶ Ethics in the Clinical Use and Research of Stem Cells and BMAC
- ▶ How to Design Clinical Trials of Stem Cells and BMAC in Orthopedic Surgery
- ▶ Role in Non-union and Bone Defects
- ▶ Management of Osteoarthritis
- ▶ Clinical Applications in Cartilage Pathology
- ▶ Role of BMAC in Avascular Necrosis
- ▶ Bone Marrow Aspirate Concentrate in Nerve and Spinal Cord Injury
- ▶ Uses in Spine Surgery

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