

Melt-And-Meld Approaches To Repair Tissue Defects

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BRIEF DESCRIPTION

See patent publication no. US20220001080A1. The present invention is a multi-stage treatment that heals tissue or organ damage (e.g., linear defects, fissures, and fibrillations, as well as focal and large defects) in collagen-rich tissues and organs such as articular cartilage. The present invention includes methods 1) to prime tissues in preparation for treatment, which comprises “melting” the tissue matrix, 2) to add or fill the damaged area with a “melding” agent, comprising of endogenous or exogenous tissue matrix, with or without cells, with or without exogenous biomaterials, and with or without endogenous or exogenous enzymes, such that the melding agent enhances anchoring into the defect for the purpose of integration and/or tissue healing. The Melt-and-Meld process can also be applied in conjunction with any existing treatments of tissue or organ defects.

FULL DESCRIPTION

SUGGESTED USES

ADVANTAGES

PATENT STATUS

Patent Pending

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OTHER INFORMATION

CATEGORIZED AS

- » **Medical**
- » Other
- » Rehabilitation

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