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Bone is a metabolically active tissue composed of several types of cells. These cells include osteoblasts, which are involved in the creation and mineralization of bone tissue, osteocytes, and osteoclasts, which are involved in the reabsorption of bone tissue. Articular cartilage in the knee damaged in a single, or focal, location. Most candidates for articular cartilage restoration are young adults with a single injury, or lesion. Hyaline articular cartilage provides the bearing surface of synovial joints. Cartilage is unique as it is an avascular, aneural tissue, in which cells survive for a lifetime, without intercellular connections. Bone, rigid body tissue consisting of cells embedded in an abundant hard intercellular material. The two principal components of this material, collagen and calcium phosphate, distinguish bone from such other hard tissues as chitin, enamel, and shell., Bone And Cartilage Engineering.

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