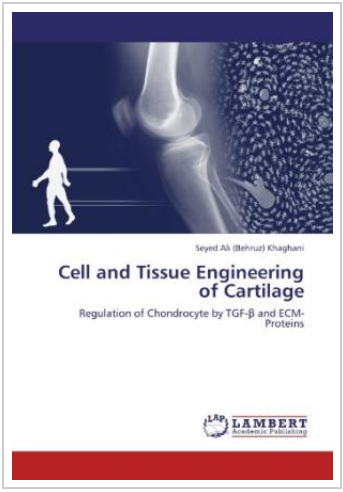

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Cell and Tissue Engineering of Cartilage

By Khaghani, Seyed Ali (Behruz)

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Regulation of Chondrocyte by TGF- and ECM-Proteins | Cartilage cell (Chondrocyte) is embedded in the matrix (Lacunae) and has round shape in vivo. The in vitro monolayer culture of primary chondrocyte causes morphological change characterized as dedifferentiation. Transforming growth factor-beta (TGF-), a cytokine superfamily, regulates cell function, including differentiation and proliferation. The effect of TGF- 1, 2, 3, and their manipulated forms in biological regulation of primary chondrocyte was investigated in this work. A novel method was developed to isolate and purify the primary chondrocytes from knee joint of neonate Sprague-Dawley rat, and the effect of some supplementations such as hyaluronic acid and antibiotics were also investigated to provide the most appropriate condition for in vitro culture of chondrocyte cells. | Format: Paperback | Language/Sprache: english | 212 pp.

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