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(54) Title: TENOCYTE CONTAINING BIOSCAFFOLDS AND TREATMENT USING THE SAME

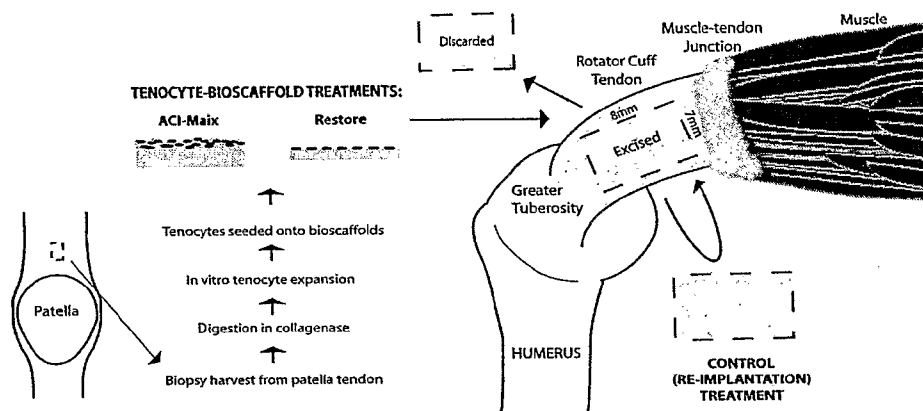


Figure 2

(57) Abstract: The present invention relates to methods for preparing bioscaffolds useful in the repair of tears. More specifically, the invention relates to a method of treating rotator cuff tear in a mammalian subject in need thereof comprising the steps of: (i) selectively expanding tenocytes in vitro in culture medium comprising insulin or a functional derivative and a glucocorticoid or a glucocorticoid-like molecule to produce a culture of expanded tenocytes; (ii) seeding a bioscaffold with said expanded tenocytes to produce a tenocyte seeded bioscaffold; and (iii) implanting said tenocyte seeded bioscaffold proximal to the rotator cuff tear. The present invention also relates to a bioscaffold comprising cells, wherein more than 80 % of said cells are tenocytes.