ABSTRACT

Damage of the joint surfaces formed by hyaline cartilage is an irreversible process, the organism cannot repair it by itself. Our effort is to create the method that would start a repair of the defect and create a kind of construction helping the damaged organism to complete a repair of the defect. A non-cellular implant with optimal biomechanical parameters was obtained. It was intended for the reparation of defective joint surfaces, especially of traumatological etiology. Simultaneously a gel injectable material based on intelligent nanofibers functionalized with mediators stimulating cell migration was created.