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Title (English) Porous bacterial cellulose in cartilage tissue engineering		
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Abstract Articular cartilage is a tissue which functions as a lubricant and shock absorber within diarthrodial joints. Due to the tissue being avascular, aneural and alymphatic, the repair capacity of the tissue is very limited. One treatment method for cartilage injuries which is evaluated uses expanded chondrocytes taken from biopsies which are seeded onto scaffolds made from various materials. These are then implanted into the damaged area where cells produce extracellular matrix (ECM). Yet, no optimal material has been found, and therefore bacterial cellulose (BC) is tested as a candidate. Porogens were incorporated during the fabrication of the material, and chondrocytes were seeded onto the highly porous and interconnected scaffolds. Results show that cells migrated and adhered to the material, filled the pores to some extent and started to produce ECM. With further development, the material could be found suitable as scaffold material in cartilage regeneration applications.		
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