

Title (en)  
IMPROVED HYDROGEL FOR TISSUE ENGINEERING

Title (de)  
VERBESSERTES HYDROGEL FÜR DIE GEWEBETECHNOLOGIE

Title (fr)  
HYDROGEL AMELIORE POUR CHIRURGIE REPARATRICE

Publication  
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Application  
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Abstract (en)  
[origin: WO9915211A1] This invention provides compositions for use in implanting into an animal comprising a biodegradable, biocompatible polymer which forms a hydrogel upon cross-linking. In a preferred mode, the polymer is cross-linked by multivalent ions; more preferably, a soluble salt of a multivalent ion and a sparingly soluble salt of a multivalent ion, these components being combined into a mixture which forms a partially hardened, injectable hydrogel, the consistency of the mixture being suitable for implanting the partially hardened hydrogel mixture into the animal, where the implanted, partially hardened hydrogel forms in situ a fully hardened hydrogel. Preferably, the mixture also contains a biocompatible sequestrant which competes with the biocompatible polymer for binding of the multivalent cross-linking ion. The composition may or may not contain living cells. The invention also provides methods for implanting the composition in an animal, optionally as an implant containing living cells.

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