



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : A61L 27/22, 27/38, A61K 38/18, C07K 14/51	A1	(11) International Publication Number: WO 00/44413 (43) International Publication Date: 3 August 2000 (03.08.00)
(21) International Application Number: PCT/US00/02430 (22) International Filing Date: 31 January 2000 (31.01.00) (30) Priority Data: 60/118,160 1 February 1999 (01.02.99) US 09/493,543 28 January 2000 (28.01.00) US (71) Applicant: GENETICS INSTITUTE, INC. [US/US]; 87 Cambridge Park Drive, Cambridge, MA 02140 (US). (72) Inventors: ZHANG, Renwen; 10 Matthew Court, Edison, NJ 08820 (US). PELUSO, Diane; 107 Emory Road, Marshfield, MA 02050 (US). MORRIS, Elisabeth; 15 Apple Street, Sherborn, MA 01770 (US). (74) Agent: GYURE, Barbara, A.; American Home Products Corporation, Patent and Trademark Department-2B, One Campus Drive, Parsippany, NJ 07054 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: METHODS AND COMPOSITIONS FOR HEALING AND REPAIR OF ARTICULAR CARTILAGE		
(57) Abstract <p>Methods and compositions are provided for the treatment of articular cartilage defects and disease involving the combination of the tissue, such as osteochondral grafts, with active growth factor. The active growth factor is preferably a composition containing at least one bone morphogenetic protein and a suitable carrier. The method results in the regeneration of functional repair of articular cartilage tissue.</p>		