

(2006013841)

02-03.06



162162

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 March 2005 (10.03.2005)

PCT

(10) International Publication Number
WO 2005/021730 A3

(51) International Patent Classification⁷: C12N 11/00,
11/02, 5/06, 5/08, A61K 39/44, 39/395, 39/385

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(21) International Application Number:
PCT/US2004/028193

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(22) International Filing Date:
1 September 2004 (01.09.2004)

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AI., AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/499,023 2 September 2003 (02.09.2003) US

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(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML., MR, NE, SN, TD, TG).

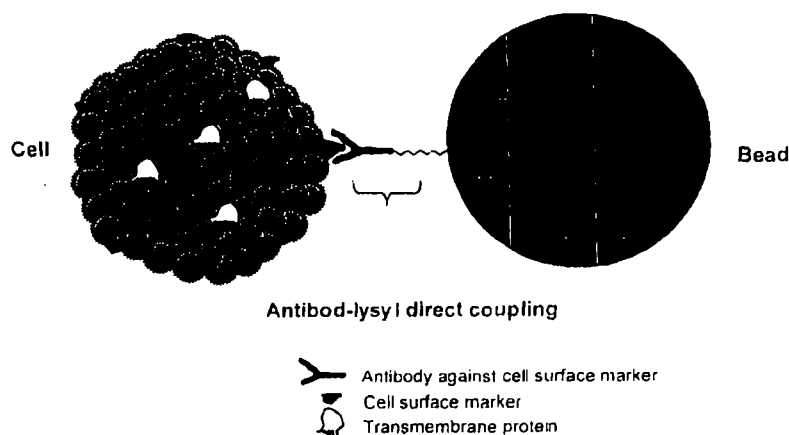
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[Continued on next page]

(54) Title: BIODEGRADABLE POLYMER-LIGAND CONJUGATES AND THEIR USES IN ISOLATION OF CELLULAR
SUBPOPULATIONS AND IN CRYOPRESERVATION, CULTURE AND TRANSPLANTATION OF CELLS

Conjugate of by Direct Coupling with Lysyl Group



(57) Abstract: The invention discloses a biodegradable particle-cell composition having at least one biodegradable particle, at least one receptive group covalently linked thereto, and a cell anchored thereto (Fig. 1). The particle can be polylactide, a polylactide-lysine copolymer, polylactide-lysine-polyethylene glycol copolymer, starch, or collagen. The receptive group can be an antibody, a fragment of an antibody, an avidin, a streptavidin, or a biotin moiety. Moreover, the particle can also have extracellular matrix components other than collagen. The particle-cell compositions can be used for selection of cells from a population, for cell culture of anchorage-dependent cells, for cryopreservation of anchorage-dependent cells, and for transplantation as a cell therapy.

WO 2005/021730 A3



ACTION

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:
28 July 2005