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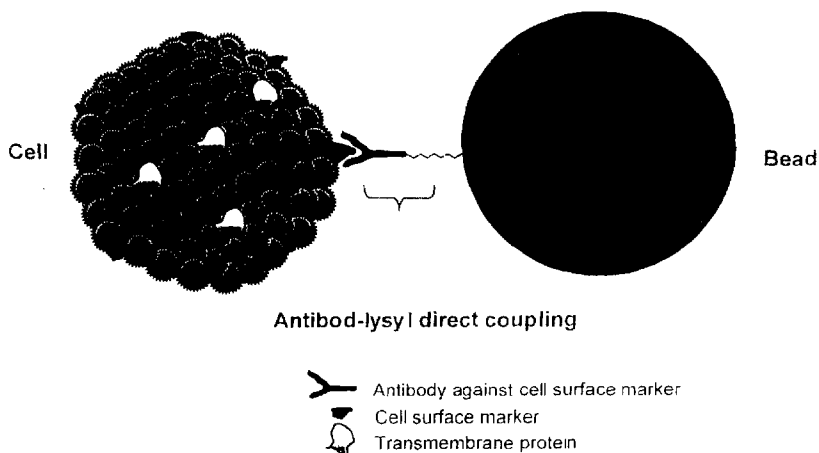
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(54) Title: BIODEGRADABLE POLYMER-LIGAND CONJUGATES AND THEIR USES IN ISOLATION OF CELLULAR
SUBPOPULATIONS AND IN CRYOPRESERVATION, CULTURE AND TRANSPLANTATION OF CELLS

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.

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