

Title (en)
MODIFIED CELLS AND METHODS FOR INHIBITING HYPERACUTE REJECTION OF XENOGENEIC TRANSPLANTS

Title (de)
MODIFIZIERTE ZELLEN UND VERFAHREN ZUR INHIBIERUNG DER HYPERAKUTEN ABSTOSSUNG VON XENOGENE TRANPLANTATEN

Title (fr)
MODIFICATION CELLULAIRE ET PROCEDES D'INHIBITION DES REACTIONS SURAIGUES DE REJET DES XENOGREFFES

Publication
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Application
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Abstract (en)
[origin: WO9533828A1] Modified cells for transplantation having reduced capacity to stimulate natural antibody-mediated hyperacute rejection of the cell in a transplant recipient are disclosed. In unmodified form, cells for use in xenogeneic transplantation express at least one epitope on a cell surface antigen which is bound by natural antibodies in a recipient. Prior to transplantation, the cells are modified to alter, reduce or substantially eliminate expression of the epitope on the cell surface. Preferably, the cell is a porcine cell and the epitope is a galactosyl (alpha 1,3) galactose epitope. Methods for reducing the immunogenicity of a cell for transplantation into a recipient are also disclosed. Modified cells of the invention can additionally be treated to alter, reduce or substantially eliminate another surface antigen (e.g., an MHC class I antigen) which stimulates a cellular immune response against the cell in a recipient. Additionally, a recipient can be treated with an agent which inhibits T cell activity, such as an immunosuppressive drug or an anti-T cell antibody.

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