Title (en)

SYSTEM FOR THE MAINTENANCE, GROWTH AND DIFFERENTIATION OF HUMAN AND NON-HUMAN PRIMATE PLURIPOTENT STEM, PROGENITOR AND MATURE BONE MARROW CELLS

Title (de)

SYSTEM FÜR ERHALTUNG, WACHSTUM UND DIFFERENZIERUNG VON MENSCHLICHEN UND NICHT- MENSCHLICHEN PLURIPOTENTEN STAMM ELTERLICHEN UND KNOCHENMARKZELLEN

Title (fr)

SYSTEME DESTINE A L'ENTRETIEN, LA CROISSANCE ET LA DIFFERENTIATION DE CELLULES DE MOELLE OSSEUSE PLURIPOTENTES SOUCHES, PARENTES ET A MATURITE, D'ORIGINE HUMAINE OU PROVENANT DE PRIMATES

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Application

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Priority

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Abstract (en)

[origin: WO9617627A2] The present invention relates to a method of engrafting human or non-human primate pluripotent stem cells, such as CD34+ cells, in a mouse. The method comprises administering to irradiated mice immortalized human or non-human primate bone marrow stromal cells which express cytokines supporting growth of cells, such as CD34+ cells, and, sequentially or simultaneously, administering purified human or non-human primate CD34+ cells. The stromal cells and CD34+ cells can be administered by intraperitoneal or intravenous injections. The invention can be used to evaluate gene therapy protocols for human CD34+ cells as well as having applications in the treatment of patients exposed to irradiation such as during a bone marrow transplant. The invention also provides an animal model for the study of human hematopoiesis.

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A61K 48/00; A01K 67/027; C12N 15/87

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