

Title (en)  
SUSTAINED AND CONTINUOUS PRODUCTION OF HIGH TITERS OF RECOMBINANT VIRAL VECTORS AND TRANSDUCED TARGET CELLS FOR USE IN GENE THERAPY

Publication  
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Application  
**EP 92902297 A 19911210**

Priority  
US 62700890 A 19901213

Abstract (en)  
[origin: WO9210564A1] This invention provides improved methods for producing high titers of recombinant viral vectors by culturing producer cells in a hollow fiber bioreactor. The titer of virus in the extra fiber space (EFS) of the hollow fiber bioreactor is sufficient to transduce target cells at a multiplicity of infection sufficient to render the transduced target cells useful for genetic therapy. In a preferred embodiment, target cells are transduced with the EFS medium from a hollow fiber bioreactor in which a producer cell line, which releases packaged retroviral vectors into the EFS, has been cultured. Lymphocytes derived from an adenosine deaminase (ADA)-deficient individual that have been transduced with EFS medium that contains retroviral vectors that include RNA that encodes ADA, express ADA at a rate comparable to that of cells from an individual who does not have ADA deficiency.

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Citation (search report)  
• [DA] WO 9002171 A1 19900308 - CELLCO ADVANCED BIOREACTORS IN [US]  
• [A] FR 2236004 A1 19750131 - MONSANTO CO [US]  
• [DA] R.A. HOCK ET AL.: "Expression of human adenosine deaminase from various strong promoters after gene transfer into human hematopoietic cell lines", BLOOD, vol. 74, no. 2, 1 August 1989 (1989-08-01), SAUNDERS, DULUTH, NEW YORK , US, pages 876 - 881  
• See references of WO 9210564A1

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