(ref only)
20000353 2-9

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A61K 39/00, C12N 15/85 — A1

(11) International Publication Number: **WO 99/32145**

(43) International Publication Date: 1 July 1999 (01.07.99)

(21) International Application Number: PCT/US98/26211

(22) International Filing Date: 15 December 1998 (15.12.98)

(30) Priority Data:
08/998,036 23 December 1997 (23.12.97) US

(71) Applicant: CELL GENESYS, INC. [US/US]; 342 Lakeside Drive, Foster City, CA 94404 (US).

(72) Inventors: SNYDER, Richard, O.; Cell Genesys, Inc., 342 Lakeside Drive, Foster City, CA 94404 (US). RENDAHL, Katherine; Cell Genesys, Inc., 342 Lakeside Drive, Foster City, CA 94404 (US). LEFF, Stuart; Cell Genesys, Inc., 342 Lakeside Drive, Foster City, CA 94404 (US). MANDEL, Ronald; Cell Genesys, Inc., 342 Lakeside Drive, Foster City, CA 94404 (US). COHEN, Lawrence; Cell Genesys, Inc., 342 Lakeside Drive, Foster City, CA 94404 (US). DANOS, Olivier; 61, rue Saint Homore, F-77300 Fontainebleau (FR).

(74) Agents: NAKAMURA, Dean, H. et al.; Sughrue, Mion, Zinn, Macpeak & Seas, PLLC, Suite 800, 2100 Pennsylvania Avenue, N.W., Washington, DC 20037-3213 (US).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: DELIVERY OF MULTIPLE GENES TO CELLS USING PLURAL ADENO-ASSOCIATED VIRAL VECTORS

(57) Abstract

A method for transducing a polypoid, multinucleate or polysomic cell with plural rAAVs carrying different transgenes. A suitable cell is a striated muscle cell or hepatocyte.