(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
8 November 2012 (08.11.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/151279 A2

(51) International Patent Classification:
A61K 35/14 (2006.01) *A61P 37/04* (2006.01)
A61K 38/20 (2006.01)

(21) International Application Number:
PCT/US2012/036123

(22) International Filing Date:
2 May 2012 (02.05.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/482,009	3 May 2011 (03.05.2011)	US
61/528,484	29 August 2011 (29.08.2011)	US
61/564,551	29 November 2011 (29.11.2011)	US
61/582,881	4 January 2012 (04.01.2012)	US

(72) Inventor; and
(71) Applicant : **HAR-NOY, Michael** [US/IL]; 22/1 Emek Zebulun, 71700 Modi'in, Jerusalem (IL).

(74) Agents: **SAWICKI, Z., Peter** et al.; Westman, Champlin & Kelly, P.A., 900 Second Avenue South, Suite 1400, Minneapolis, MN 55402-3319 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

(54) **Title**: INDUCTION OF IL-12 USING IMMUNOTHERAPY

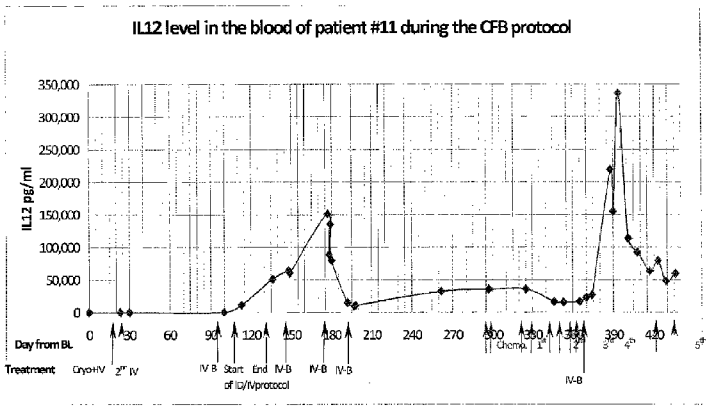


FIGURE 1

(57) **Abstract**: The present invention relates to compositions and methods that promote the induction of IL-12 in a patient. The composition includes activated allogeneic cells that are administered to a patient with a disease such as cancer. Administration of the composition skews the patient's immune response to a Th1 environment and produces detectable levels of IL-12 in the patient's plasma, without any IL-12 related toxicity.

WO 2012/151279 A2