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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 May 2016 (12.05.2016)

WIPO | PCT

(10) International Publication Number
WO 2016/073550 A1

(51) International Patent Classification:
A61K 35/17 (2015.01) *G01N 33/50* (2006.01)
C12N 5/0783 (2010.01)

(21) International Application Number:
PCT/US2015/058939

(22) International Filing Date:
4 November 2015 (04.11.2015)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/075,856 5 November 2014 (05.11.2014) US

(71) Applicant: **MEMORIAL SLOAN KETTERING CANCER CENTER** [US/US]; 1275 York Avenue, New York, NY 10065 (US).

(72) Inventors: **O'REILLY, Richard, J.**; 34 Runcum Road, Box 314, Roxbury, CT 06783-1909 (US). **DOUBROVINA, Ekaterina**; 6219 Spencer Terrace, Bronx, NY 10471 (US). **KOEHNE, Guenther**; 55 First Street, Unit 314, Pelham, NY 10803 (US). **HASAN, Aisha, N.**; 504 East 53rd Street, # 11R, New York, NY 10065 (US). **PROCKOP, Susan, E.**; 121 West 17th Street, Apt. 6A, New York, NY 10011 (US).

(74) Agents: **ANTLER, Adriane, M.** et al.; Jones Day, 222 East 41st Street, New York, NY 10017-6702 (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, BN, 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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, ST, 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, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

(54) Title: METHODS OF SELECTING T CELL LINE AND DONOR THEREOF FOR ADOPTIVE CELLULAR THERAPY

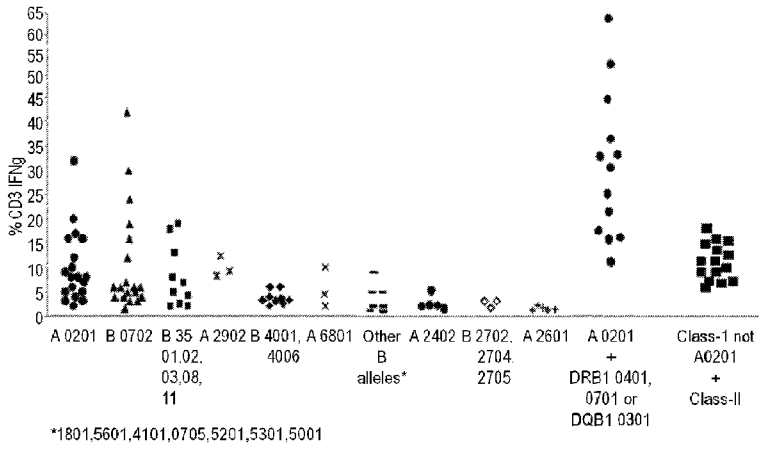

Figure 1

(57) Abstract: Disclosed herein are methods of selecting an allogeneic T cell line for therapeutic administration to a patient having or suspected of having a pathogen or cancer. Also disclosed are methods of selecting a donor from whom to derive an allogeneic T cell line for therapeutic administration to a patient having or suspected of having a pathogen or cancer.

WO 2016/073550 A1