



(51) International Patent Classification:

C12N 5/00 (2006.01) *C12N 15/11* (2006.01)
A01N 63/00 (2006.01)

(21) International Application Number:

PCT/US2014/019596

(22) International Filing Date:

28 February 2014 (28.02.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/770,533 28 February 2013 (28.02.2013) US
61/828,568 29 May 2013 (29.05.2013) US
61/904,768 15 November 2013 (15.11.2013) US

(71) Applicants: **PRESIDENT AND FELLOWS OF HARVARD COLLEGE** [US/US]; 17 Quincy Street, Cambridge, MA 02138 (US). **THE GENERAL HOSPITAL CORPORATION** [US/US]; 55 Fruit Street, Boston, MA 02114 (US).

(72) Inventors: **SCADDEN, David, T.**; 62 Lexington Street, Weston, MA 02498 (US). **SAEZ, Borja**; 34 Saint Germain Street Apt. 5, Boston, MA 02115 (US). **FERRARO, Francesca**; 215 East 4th Street, Landsdale, PA 19446 (US). **HOGGATT, Jonathan**; 132 1/2 Oxford Street, Cambridge, MA 02140 (US).

(74) Agent: **TREANNIE, Lisa, M.**; Morse, Barnes-Brown & Pendleton, P.C., City Point, 230 Third Avenue, 4th Floor, Waltham, MA 02451 (US).

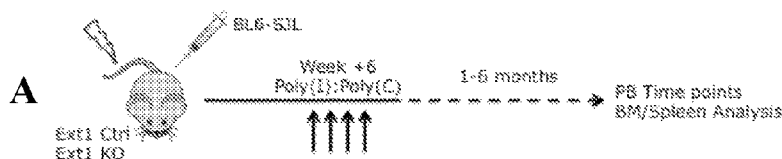
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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, 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))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: METHODS AND COMPOSITIONS FOR MOBILIZING STEM CELLS



(57) Abstract: The present invention relates to methods and compositions for mobilizing hematopoietic stem cells and/or progenitor cells, and related methods of conditioning for engraftment of transplanted hematopoietic stem cells and/or progenitor cells, and methods of treating diseases requiring hematopoietic stem cell and/or progenitor cell transplantation.