

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
20 October 2022 (20.10.2022)



(10) International Publication Number
WO 2022/221745 A1

(51) International Patent Classification:
C07K 14/005 (2006.01) C12N 15/86 (2006.01)
C12N 15/10 (2006.01)

(21) International Application Number:
PCT/US2022/025142

(22) International Filing Date:
16 April 2022 (16.04.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/176,120 16 April 2021 (16.04.2021) US

(71) Applicants: MASSACHUSETTS INSTITUTE OF
TECHNOLOGY [US/US]; 77 Massachusetts Avenue,
Cambridge, MA 02139 (US). THE REGENTS OF
THE UNIVERSITY OF CALIFORNIA [US/US]; 1111
Franklin Street, 12th Floor, Oakland, CA 94607-5200 (US).

(72) Inventors: BIRNBAUM, Michael; 4 Wyatt Circle,
Somerville, MA 02143 (US). DOBSON, Connor; 89 Cross
Street, Apt 2, Somerville, MA 02145 (US). GAGLIONE,

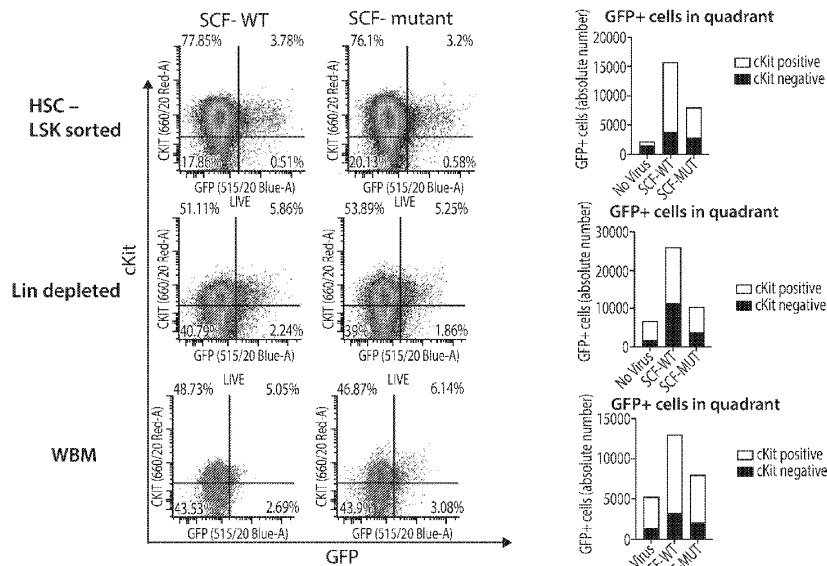
Stephanie; 425 Massachusetts Avenue, #411, Cambridge,
MA 02139 (US). ROYBAL, Kole; 653 14th Avenue, San
Francisco, CA 94118 (US). BURNETT, Cassandra; 1121
Tennessee Street, Apt 1, San Francisco, CA 94107 (US).

(74) Agent: CHIMALAKONDA, Gitanjali et al.; Wolf,
Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston,
MA 02210-2206 (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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JM, JO, JP, KE, KG, KH,
KN, KP, KR, KW, 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, ST, SV, SY, TH, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

(54) Title: VIRAL TARGETING OF HEMATOPOIETIC STEM CELLS



(57) Abstract: Disclosed herein are compositions of retroviruses and methods of using the same for gene delivery to a hematopoietic stem cell (HSC), wherein the retroviruses comprise a viral envelope protein comprising at least one mutation that diminishes its native function, a non-viral membrane-bound protein comprising a membrane-bound domain and an extracellular targeting domain.

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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))
- 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))
- with sequence listing part of description (Rule 5.2(a))