

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
16 March 2023 (16.03.2023)



(10) International Publication Number
WO 2023/039410 A1

(51) International Patent Classification:

C12Q 1/02 (2006.01) C12N 5/0783 (2010.01)
G01N 33/53 (2006.01)

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.

(21) International Application Number:

PCT/US2022/076028

(22) International Filing Date:

07 September 2022 (07.09.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/241,768 08 September 2021 (08.09.2021) US
63/291,655 20 December 2021 (20.12.2021) US
63/391,118 21 July 2022 (21.07.2022) US

(71) Applicant: **KSQ THERAPEUTICS, INC.** [US/US]; 4
Maguire Road, Lexington, Massachusetts 02421 (US).

(72) Inventors: **BENSON, Micah**; 27 Glenburn Road, Arlington,
MA 02476 (US). **SCHLABACH, Michael, R.**; 301
Pleasant Street, Belmont, MA 02478 (US). **WONG, Kar-
rie**; C/o Ksq Therapeutics, Inc., 610 Main Street North, 4th
Floor, Cambridge, MA 02139 (US).

(74) Agent: **DIPIETRANTONIO, Heather, J.** et al.; Wolf,
Greenfield And Sacks, P.C., 600 Atlantic Avenue, Boston,
MA 02210 (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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, 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,

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

(54) Title: LYMPHOCYTE POTENCY ASSAY

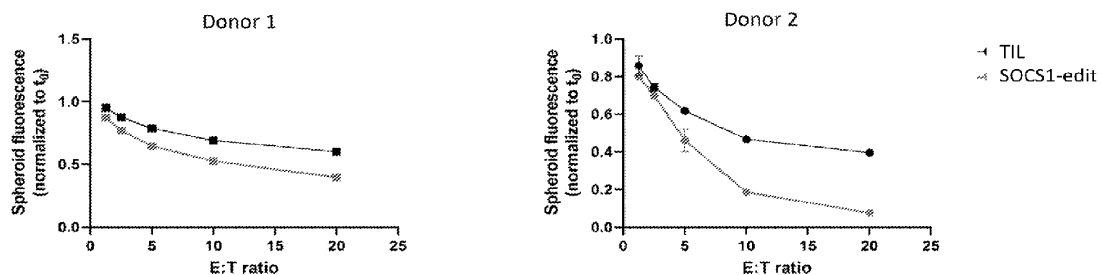


FIG. 20

(57) Abstract: The present disclosure provides methods and materials useful for measuring the antitumor potency of lymphocytes, such as tumor infiltrating lymphocytes.