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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
09 November 2023 (09.11.2023)

WIPO | PCT

(10) International Publication Number
WO 2023/215183 A1

(51) International Patent Classification:
C07K 14/725 (2006.01) *A61P 35/00* (2006.01)
A61K 35/17 (2015.01) *C07K 16/30* (2006.01)
A61K 38/17 (2006.01)

(21) International Application Number:
PCT/US2023/020338

(22) International Filing Date:
28 April 2023 (28.04.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

63/337,522	02 May 2022 (02.05.2022)	US
63/342,451	16 May 2022 (16.05.2022)	US
63/413,553	05 October 2022 (05.10.2022)	US
63/423,269	07 November 2022 (07.11.2022)	US

(71) Applicant: **TSCAN THERAPEUTICS, INC.** [US/US]; 830 Winter Street, Waltham, MA 02451 (US).

(72) Inventors: **WANG, Yifan**; 15 Albermarle Street, Arlington, MA 02476 (US). **GURER, Cagan**; 21 Buttonhook Road, Chappaqua, NY 10514 (US). **MACBEATH, Gavin**; 9 Sophia's Way, Wakefield, MA 01880 (US).

(74) Agent: **CHOI, Philip, S.** et al.; Foley Hoag LLP, 155 Seaport Boulevard, Boston, MA 02210-2600 (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, MG, MK, MN, MU, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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).

(54) Title: MULTIPLEXED T CELL RECEPTOR COMPOSITIONS, COMBINATION THERAPIES, AND USES THEREOF

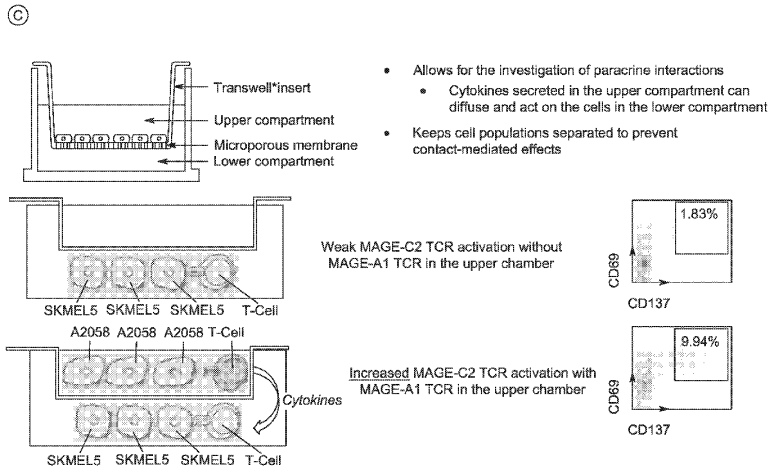

Figure 4 (Cont.)

(57) Abstract: Provided herein are multiplexed T cell receptor compositions, combination therapies, and uses thereof.

[Continued on next page]

WO 2023/215183 A1

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