

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
10 February 2022 (10.02.2022)



(10) International Publication Number
WO 2022/031965 A1

(51) International Patent Classification:

C07K 16/28 (2006.01) C07K 14/705 (2006.01)
A61P 35/00 (2006.01)

(21) International Application Number:

PCT/US2021/044737

(22) International Filing Date:

05 August 2021 (05.08.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/061,510 05 August 2020 (05.08.2020) US

(71) Applicant: **DRAGONFLY THERAPEUTICS, INC.**
[US/US]; 35 Gatehouse Drive, Waltham, MA 02451 (US).

(72) Inventors: **CHEUNG, Ann, F.**; 25 Morningside Lane, Lincoln, MA 01773 (US). **DRABIC, Stacey, V.**; 223 Concord Turnpike, Unit 332, Cambridge, MA 02140 (US). **GRINBERG, Asya**; 37 Follen Road, Lexington, MA 02421 (US). **JUO, Zong, Sean**; F8-1, No. 129, Xingyun Street, Neihu District, Taipei, 114 (TW). **LIHARSKA, Katia**; 567 Middlesex Turnpike, Billerica, MA 01821 (US). **MORGAN, Christopher, Ryan**; 25 Marlboro Road, Southborough, MA 01772 (US). **WAGTMANN, Nicolai**; 1776 Monument Street, Concord, MA 01742 (US).

(74) Agent: **ASHRAF, Shovon et al.**; Goodwin Procter LLP, 100 Northern Avenue, IP DOCKETING DEPT./7TH FL, 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, 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, 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, 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, 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: PROTEINS BINDING NKG2D, CD16 AND EGFR

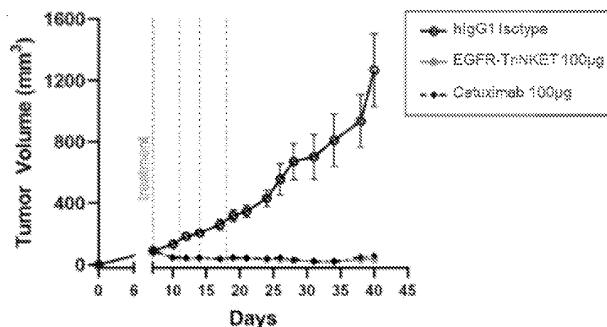


FIG. 35A

(57) Abstract: Described herein are multispecific binding proteins that bind NKG2D receptor, CD 16, and EGFR, as well as pharmaceutical compositions and therapeutic methods useful for the treatment of cancer.

WO 2022/031965 A1