

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
23 June 2022 (23.06.2022)



(10) International Publication Number
WO 2022/133326 A1

(51) International Patent Classification:

A61K 38/00 (2006.01) C07K 14/52 (2006.01)
A61K 38/19 (2006.01) C07K 14/54 (2006.01)
A61K 38/20 (2006.01) C07K 14/55 (2006.01)

(21) International Application Number:

PCT/US2021/064224

(22) International Filing Date:

17 December 2021 (17.12.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/127,995 18 December 2020 (18.12.2020) US

(71) Applicant: **CULLINAN AMBER CORP.** [US/US]; One Main Street, Suite 520, Cambridge, Massachusetts 02142 (US).

(72) Inventors: **MEHTA, Naveen**; One Main Street, Suite 520, Cambridge, Massachusetts 02142 (US). **JENNIFER, Michaelson**; One Main Street, Suite 520, Cambridge, Massachusetts 02142 (US). **BAEUEERLE, Patrick**; One Main Street, Suite 520, Cambridge, Massachusetts 02142 (US). **LI, Bochong**; One Main Street, Suite 520, Cambridge, Massachusetts 02142 (US). **WITTRUP, K. Dane**; One Main Street, Suite 520, Cambridge, Massachusetts 02142 (US).

(74) Agent: **RODRIGUEZ, Elena**; IP DOCKETING DEPT., 100 Northern Avenue, 7th Floor, Boston, Massachusetts 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, 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, 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))

(54) Title: BI-FUNCTIONAL LINEAR FUSION COLLAGEN-LOCALIZED IMMUNOMODULATORY MOLECULES AND METHODS THEREOF

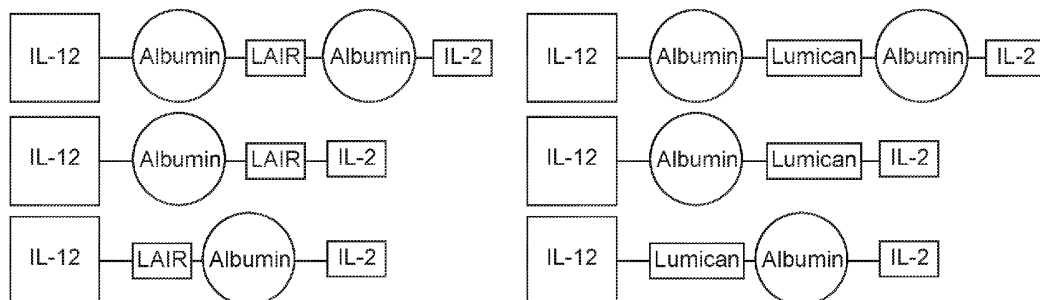


FIG. 1

(57) Abstract: Disclosed herein are immunomodulatory fusion proteins comprising an IL-2; an IL-12, a collagen-binding domain, and a linear polypeptide spacer, methods of making and using the same. The immunomodulatory fusion proteins disclosed herein are useful for the treatment of cancer.

WO 2022/133326 A1