



(51) International Patent Classification:

C12N 15/62 (2006.01) C12N 15/85 (2006.01)
C07K 14/54 (2006.01) A61K 39/39 (2006.01)
C07K 19/00 (2006.01) A61P 35/00 (2006.01)
C12N 9/12 (2006.01)

(21) International Application Number:

PCT/US2023/036996

(22) International Filing Date:

08 November 2023 (08.11.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/424,013 09 November 2022 (09.11.2022) US

(71) Applicant: ANKYRA THERAPEUTICS, INC. [US/US];
245 Main Street, 2nd Floor, Cambridge, MA 02142 US
(US).

(72) Inventors: SCHMIDT, Michael; 14 Pilgrim Road,
Wellesley, Massachusetts 02481 (US). ZARBIS-PAPAS-
TOITSIS, Grigorios; 19 Upland Road, Watertown, Mass-
achusetts 02472 (US).

(74) Agent: BYCHOWSKI, Meaghan E. et al.; CHOATE,
HALL & STEWART LLP, Two International Place, Boston,
Massachusetts 02110 (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,

(54) Title: METHODS OF MAKING FUSION POLYPEPTIDES

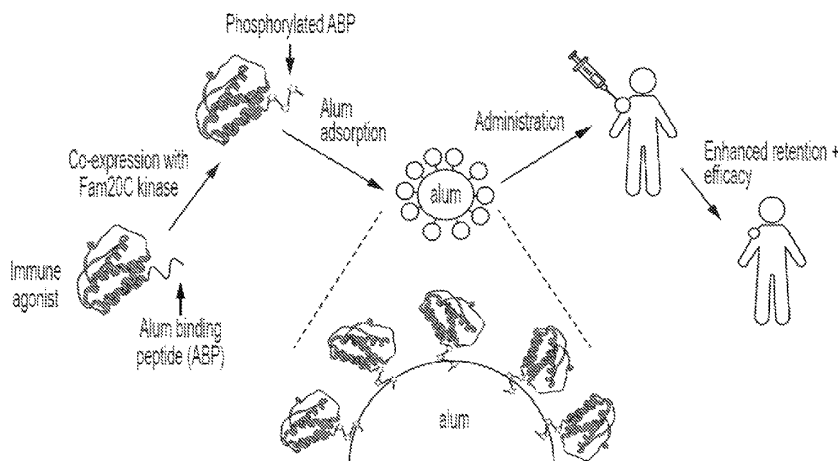


FIG. 1

(57) Abstract: The present disclosure provides surprisingly useful fusion polypeptides including an immunomodulatory moiety and a metal-hydroxide binding moiety, as well as various related technologies, including methods of making and of using such fusion polypeptides.

[Continued on next page]

SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

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))*

(88) Date of publication of the international search report:

25 July 2024 (25.07.2024)