

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
24 June 2021 (24.06.2021)



(10) International Publication Number
WO 2021/122866 A1

- (51) **International Patent Classification:**
C07K 14/54 (2006.01) *A61K 38/00* (2006.01)
- (21) **International Application Number:**
PCT/EP2020/086600
- (22) **International Filing Date:**
17 December 2020 (17.12.2020)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
19306671.9 17 December 2019 (17.12.2019) EP
- (71) **Applicant: OSE IMMUNOTHERAPEUTICS** [FR/FR];
22 boulevard Benoni Goullin, 44200 NANTES (FR).
- (72) **Inventors: POIRIER, Nicolas**; 1, chemin du passe-temps,
44119 TREILLIERES (FR). **MARY, Caroline**; 7, rue du
Buisson, 44680 SAINTE PAZANNE (FR). **MORELLO,
Aurore**; 18 bis rue de l'Ouche Colin, 44230 SAINT SE-
BASTIEN SUR LOIRE (FR).
- (74) **Agent: CABINET BECKER ET ASSOCIES**; 25, rue
Louis le Grand, 75002 PARIS (FR).
- (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))
- 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))
- with sequence listing part of description (Rule 5.2(a))

(54) **Title:** BIFUNCTIONAL MOLECULES COMPRISING AN IL-7 VARIANT

(57) **Abstract:** The present invention relates to IL-7 variants, bifunctional molecules comprising it and their uses.

WO 2021/122866 A1