

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2018/029367 A1

(43) International Publication Date
15 February 2018 (15.02.2018)

(51) International Patent Classification:

C07K 16/28 (2006.01) *A61K 31/282* (2006.01)
A61K 38/17 (2006.01) *A61K 31/513* (2006.01)
C07K 14/71 (2006.01) *A61K 39/395* (2006.01)
A61P 35/00 (2006.01)

(21) International Application Number:

PCT/EP2017/070513

(22) International Filing Date:

11 August 2017 (11.08.2017)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/374,621 12 August 2016 (12.08.2016) US

(71) Applicant: **MERCK PATENT GMBH** [DE/DE]; Frankfurt Strasse 250, 64293 Darmstadt (DE).

(72) Inventors: **LO, Kin-Ming**; 6 Carol Lane, Lexington, Massachusetts 02420 (US). **LAN, Yan**; 21 Newton Street, Belmont, Massachusetts 02478 (US).

(74) Agent: **SUTCLIFFE, Nicholas** et al.; Mewburn Ellis LLP, City Tower, 40 Basinghall Street, London, Greater London EC2V 5DE (GB).

(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, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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: COMBINATION THERAPY FOR CANCER

(57) Abstract: This invention relates generally to a combination therapy for the treatment of cancer, particularly to a combination of (i) a bifunctional molecule comprising a TGFBR2 or fragment thereof capable of binding TGFβ and an antibody, or antigen binding fragment thereof, that binds to an immune checkpoint protein, such as Programmed Death Ligand 1 (PD-L1) and (ii) at least one additional anti-cancer therapeutic agent.



WO 2018/029367 A1