

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
22 November 2018 (22.11.2018)



(10) International Publication Number
WO 2018/213260 A1

(51) International Patent Classification:

C07K 16/28 (2006.01) **A61K 39/395** (2006.01)

(21) International Application Number:

PCT/US2018/032692

(22) International Filing Date:

15 May 2018 (15.05.2018)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/506,940	16 May 2017 (16.05.2017)	US
62/560,462	19 September 2017 (19.09.2017)	US
62/647,008	23 March 2018 (23.03.2018)	US

(71) Applicants: **IMMUNOGEN, INC.** [US/US]; 830 Winter Street, Waltham, Massachusetts 02451 (US). **MERCK SHARP & DOHME CORP.** [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065 (US).

(72) Inventor: **RUIZ SOTO, Rodrigo R.**; c/o ImmunoGen, Inc., 830 Winter Street, Waltham, Massachusetts 02451-1477 (US).

(74) Agent: **MEYER, Mercedes K.** et al.; c/o Drinker Biddle & Reath LLP, 1500 K Street, N.W., Washington, District of Columbia 20005 (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, 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).

(54) Title: ANTI-FOLR1 IMMUNOCONJUGATES AND ANTI-PD-1 ANTIBODY COMBINATIONS

(57) Abstract: Therapeutic combinations of immunoconjugates that bind to FOLR1 (*e.g.*, IMG853) with anti-PD-1 antibodies or antigen-binding fragments thereof (*e.g.*, pembrolizumab) are provided. Methods of administering the combinations to treat cancers, *e.g.*, ovarian, peritoneal, or fallopian tube cancers, with greater clinical efficacy and/or decreased toxicity are also provided.

WO 2018/213260 A1