

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
03 November 2022 (03.11.2022)



(10) International Publication Number
WO 2022/232641 A1

(51) International Patent Classification:

A61K 39/395 (2006.01) C07K 16/28 (2006.01)
C07K 14/705 (2006.01) A61P 35/00 (2006.01)

(21) International Application Number:

PCT/US2022/027127

(22) International Filing Date:

29 April 2022 (29.04.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/182,521 30 April 2021 (30.04.2021) US
63/193,357 26 May 2021 (26.05.2021) US
63/313,879 25 February 2022 (25.02.2022) US

(71) Applicant: **PURETECH LYT, INC.** [US/US]; 6 Tide Street, Suite 400, Boston, Massachusetts 02210 (US).

(72) Inventors: **FILIPOVIC, Aleksandra**; 6 Tide Street, Suite 400, Boston, Massachusetts 02210 (US). **ELENKO, Eric**; 6 Tide Street, Suite 400, Boston, Massachusetts 02210 (US).

BOLEN, Joseph; 6 Tide Street, Suite 400, Boston, Massachusetts 02210 (US).

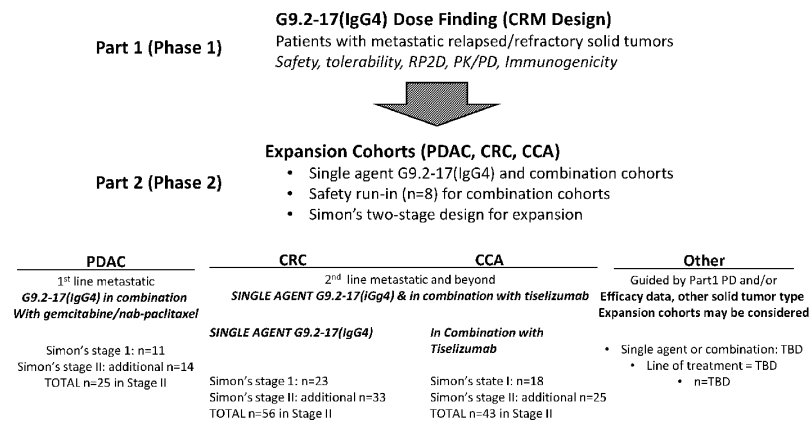
(74) Agent: **DAVIS, Jiewen Wendy et al.**; McDermott Will & Emery LLC, 500 North Capitol Street, NW, Washington, District of Columbia 20001-1531 (US).

(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, JM, 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,

(54) Title: ANTI-GALECTIN-9 ANTIBODIES AND THERAPEUTIC USES THEREOF

FIG. 1



(57) Abstract: Disclosed herein are methods for treating solid tumors (e.g., pancreatic ductal adenocarcinoma (PDAC), colorectal cancer (CRC), hepatocellular carcinoma (HCC), cholangiocarcinoma (CAA), renal cell carcinoma (RCC), urothelial, head and neck, breast cancer, lung cancer, or other gastrointestinal solid tumors), using an anti-Galectin-9 antibody, e.g., as a monotherapy or as a combined therapy with an immune checkpoint inhibitor.

[Continued on next page]

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))*
- *with sequence listing part of description (Rule 5.2(a))*