

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
18 February 2021 (18.02.2021)



(10) International Publication Number
WO 2021/030671 A1

(51) International Patent Classification:

A61K 31/551 (2006.01) C07D 513/14 (2006.01)
A61K 45/06 (2006.01)

(21) International Application Number:

PCT/US2020/046329

(22) International Filing Date:

14 August 2020 (14.08.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/886,621 14 August 2019 (14.08.2019) US
62/946,774 11 December 2019 (11.12.2019) US

(71) Applicant: SENHWA BIOSCIENCES, INC. [CN/CN];
10F, No. 225, Sec. 3, Peihsin Road, Hsintien District, New
Taipei City, 23143 (TW).

(72) Inventor; and

(71) Applicant: SOONG, John [US/US]; 6691 Meadow Lark
Street, Chino, California 91710 (US).

(74) Agent: KEITH, Andrew S. et al.; 1299 Pennsylvania Ave-
nue, NW, Suite 700, Washington, District of Columbia
20004 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available):

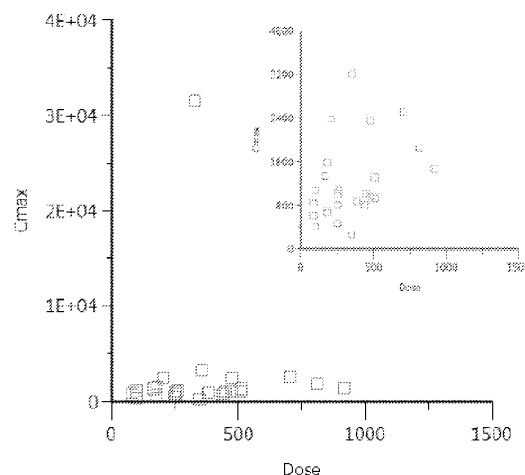
AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, 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,

(54) Title: TETRACYCLIC COMPOUNDS AND THEIR SALTS, COMPOSITIONS, AND METHODS FOR THEIR USE

FIG. 1A



(57) Abstract: The present invention includes 2-(4-Methyl-[1,4]diazepan-1-yl)-5-oxo-5H-7-thia-1,11b-diaza-benzo[c]fluorene-6-carboxylic acid (5-methyl-pyrazin-2-ylmethyl)-amide (Compound I) or a pharmaceutically acceptable salt thereof for use in treating cancer with *PALB2* mutation and/or *BRCA2* mutation.

[Continued on next page]

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))*