

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 April 2024 (04.04.2024)



(10) International Publication Number
WO 2024/072931 A2

(51) International Patent Classification:

Not classified

Published:

— without international search report and to be republished
upon receipt of that report (Rule 48.2(g))

(21) International Application Number:

PCT/US2023/033935

(22) International Filing Date:

28 September 2023 (28.09.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/410,890 28 September 2022 (28.09.2022) US

63/454,208 23 March 2023 (23.03.2023) US

(71) Applicant: **MIRATI THERAPEUTICS, INC.** [US/US];
3545 Cray Court, San Diego, CA 92121 (US).

(72) Inventors: **HALLIN, Jill**; C/o Mirati Therapeutics, Inc.,
3545 Cray Court, San Diego, CA 92121 (US). **OLSON,
Peter**; c/o Mirati Therapeutics, Inc., 3545 Cray Court, San
Diego, CA 92121 (US).

(74) Agent: **POLYAKOV, Mark V.** et al.; Wood, Phillips, Katz,
Clark & Mortimer, 500 West Madison Street, Suite 1130,
Chicago, IL 60661 (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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
MA, MD, MG, MK, MN, MU, 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, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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: COMBINATION THERAPIES

(57) Abstract: The present invention relates to combination therapies for treating KRas G12C cancers. In particular, the present invention relates to methods of treating cancer in a subject in need thereof, comprising administering to the subject a therapeutically effective amount of a combination of a PARP inhibitor and a KRAS G12C inhibitor of Formula (I), Formula (I-A) or Formula (I-B), pharmaceutical compositions comprising a therapeutically effective amounts of the inhibitors, kits comprising the compositions and methods of use therefor.



WO 2024/072931 A2