

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

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
12 December 2024 (12.12.2024)



(10) International Publication Number  
**WO 2024/251846 A1**

(51) International Patent Classification:

*A61K 45/06* (2006.01) *A61K 31/519* (2006.01)  
*A61K 38/16* (2006.01) *A61K 31/44* (2006.01)  
*A61K 31/4184* (2006.01) *A61P 35/00* (2006.01)

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).

(21) International Application Number:

PCT/EP2024/065522

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- with sequence listing part of description (Rule 5.2(a))

(22) International Filing Date:

06 June 2024 (06.06.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

23382553.8 07 June 2023 (07.06.2023) EP

(71) Applicants: **FUNDACIÓ PRIVADA INSTITUT D'INVESTIGACIÓ ONCOLÒGICA DE VALL HEBRON** [ES/ES]; Natzaret, 115-117, E-08035 Barcelona (ES). **INSTITUCIÓ CATALANA DE RECERCA I ESTUDIS AVANÇATS** [ES/ES]; Passeig Lluís Companys, 23, E-08010 Barcelona (ES).

(72) Inventors: **ZACARIAS FLUCK, Mariano Federico**; Sant Antoni Maria Claret 57, sobrecàtic 2, E-08025 Barcelona (ES). **KAUR, Jastrinjan**; Jakob-Stämpfli-Strasse 114A, 2502 Biel/Bienne (CH). **SOUCEK, Laura**; Regàs 32, At. 3, E-08006 Barcelona (ES).

(74) Agent: **ABG INTELLECTUAL PROPERTY LAW, S.L.**; Avda. de Burgos, 16D, Edificio EUROMOR, E-28036 Madrid (ES).

(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,

(54) Title: COMBINATION THERAPY WITH MEK INHIBITORS FOR THE TREATMENT OF CANCER

(57) Abstract: The invention relates to a combination of a MEK inhibitor with Omomyc, a functionally equivalent variant thereof, a conjugate comprising Omomyc or said functionally equivalent variant, a polynucleotide encoding said polypeptides, a vector comprising said polynucleotide and a cell capable of secreting the polypeptide or the conjugate. The invention also relates to pharmaceutical compositions containing the combination of the invention and to their medical uses, particularly their uses in the treatment of cancer.

WO 2024/251846 A1