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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
02 October 2025 (02.10.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/202716 A1

(51) International Patent Classification:
A61K 31/4985 (2006.01) *A61N 5/10* (2006.01)
A61K 51/00 (2006.01) *A61P 25/00* (2006.01)
A61N 5/00 (2006.01) *A61P 35/00* (2006.01)

(21) International Application Number:
PCT/IB2025/000128

(22) International Filing Date:
26 March 2025 (26.03.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2024900813 26 March 2024 (26.03.2024) AU

(71) Applicant: **TELIX PHARMACEUTICALS (INNOVATIONS) PTY LTD** [AU/AU]; 55 Flemington Road, North Melbourne, VIC 3051 (AU).

(72) Inventors: **YOKELL, Daniel Louis**; 11700 Exit 5 Pkwy, Fishers, IN 46037 (US). **BROWN, Tracey**; 55 Flemington Road, North Melbourne, VIC 3051 (AU).

(74) Agent: **FB RICE PTY LTD**; Level 33, 477 Collins Street, Melbourne, Victoria 3000 (AU).

(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, UY, 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).

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))*

WO 2025/202716 A1

(54) Title: COMBINATION THERAPY FOR TREATING GLIOBLASTOMAS

(57) Abstract: The present invention relates generally to a method of treating a glioblastoma comprising administering a therapeutically effective amount of 4-*L*-[^{131}I]iodo-phenylalanine in combination with external beam radiotherapy and optionally Temozolamide chemotherapy, to a patient in need thereof. Also provided is a composition of 4-*L*-[^{131}I]iodo-phenylalanine suitable for intravenous administration.