

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
21 September 2023 (21.09.2023)



(10) International Publication Number
WO 2023/175357 A1

(51) International Patent Classification:

A61K 31/13 (2006.01) *A61P 25/28* (2006.01)
A61K 31/437 (2006.01) *A61P 25/30* (2006.01)
A61P 25/16 (2006.01) *A61P 25/32* (2006.01)
A61P 25/24 (2006.01) *A61P 25/34* (2006.01)

(21) International Application Number:

PCT/GB2023/050660

(22) International Filing Date:

17 March 2023 (17.03.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2203728.7 17 March 2022 (17.03.2022) GB

(71) Applicant: **OXFORD UNIVERSITY INNOVATION LIMITED** [GB/GB]; Buxton Court, 3 West Way, Oxford OX2 0JB (GB).

(72) Inventors: **ZHANG, Yanfeng**; c/o Oxford University Innovation Limited, Buxton Court, 3 West Way, Oxford Oxfordshire OX2 0JB (GB). **CRAGG, Stephanie J**; c/o Oxford University Innovation Limited, Buxton Court, 3 West Way, Oxford Oxfordshire OX2 0JB (GB).

(74) Agent: **HGF LIMITED**; 1 City Walk, Leeds West Yorkshire LS11 9DX (GB).

(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: NICOTINIC ACETYLCHOLINE RECEPTOR ANTAGONIST/BLOCKER FOR USE IN INCREASING DOPAMINE

(57) Abstract: The present invention relates to methods for increasing dopamine levels in a subject. The present invention also relates to the treatment of condition or disorder in which reduced levels of dopamine are implicated, and agents for use in such treatments.

WO 2023/175357 A1