

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2023/192782 A2

(43) International Publication Date
05 October 2023 (05.10.2023)

(51) International Patent Classification:

C07D 209/76 (2006.01) A61K 31/403 (2006.01)

(21) International Application Number:

PCT/US2023/064677

(22) International Filing Date:

18 March 2023 (18.03.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

63/324,080 27 March 2022 (27.03.2022) US

(71) Applicant: **BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM** [US/US]; 210 West 7th Street, Austin, Texas 78701 (US).

(72) Inventors: **DE BRABANDER, Jef**; 5323 Harry Hines Blvd, Dallas, Texas 75390 (US). **NIJHAWAN, Deepak**; 5323 Harry Hines Blvd, Dallas, Texas 75390 (US). **WANG, Huayu**; 5323 Harry Hines Blvd, Dallas, Texas 75390 (US). **CARROLL, Christopher**; 5323 Harry Hines Blvd, Dallas, Texas 75390 (US). **NGUYEN, Thu**; 5323 Harry Hines Blvd, Dallas, Texas 75390 (US).

(74) Agent: **OSMAN, Richard**; 530 Lawrence Expy #332, Sunnyvale, California 94085 (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).

Published:

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

(54) Title: SMALL MOLECULE INHIBITORS OF LANOSTEROL SYNTHASE

(57) Abstract: Compositions for treating a neurological disorder comprised lanosterol synthase inhibitors.

WO 2023/192782 A2