

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
25 February 2021 (25.02.2021)



(10) International Publication Number
WO 2021/035196 A1

(51) International Patent Classification:
A61K 31/4192 (2006.01) *C07D 249/04* (2006.01)
A61P 13/12 (2006.01)

(21) International Application Number:
PCT/US2020/047548

(22) International Filing Date:
22 August 2020 (22.08.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/890,378 22 August 2019 (22.08.2019) US

(71) Applicant: **OXALURX, INC.** [US/US]; 101 S. Hanley Road, Suite 1850, St. Louis, Missouri 63105 (US).

(72) Inventor; and

(71) Applicant: **LEEDOM, Thomas** [US/US]; 101 S. Hanley Road, Suite 1850, St. Louis, Missouri 63105 (US).

(72) Inventors: **KABAKIBI, Ayman**; 101 S. Hanley Road, Suite 1850, St. Louis, Missouri 63105 (US). **KAHRAMAN, Mehmet**; 101 S. Hanley Road, Suite 1850, St. Louis, Missouri 63105 (US). **CLARE, Michael**; 101 S. Hanley Road, Suite 1850, St. Louis, Missouri 63105 (US).

(74) Agent: **BENNETT, Dennis**; Global Patent Group, LLC, c/o Missouri Patent Services LLC, 2275 Cassens Drive, Suite 118, St. Louis, Missouri 63026 (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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, 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, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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, 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).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

(54) Title: COMPOUNDS AND METHODS FOR TREATING OXALATE-RELATED DISEASES

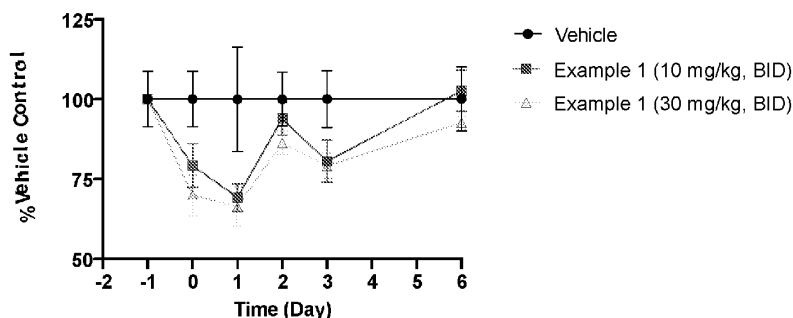


FIG. 1

(57) Abstract: Disclosed herein are compounds and compositions for modulating glycolate oxidase, useful for treating oxalate-related diseases, such as hyperoxaluria, where modulating glycolate oxidase is expected to be therapeutic to a patient in need thereof. Methods of modulating glycolate oxidase activity in a human or animal subject are also provided.

[Continued on next page]

Published:

— *with international search report (Art. 21(3))*