

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 December 2011 (22.12.2011)

PCT

(10) International Publication Number
WO 2011/159839 A3

(51) International Patent Classification:

C07D 213/70 (2006.01) **A61K 31/4965** (2006.01)
C07D 401/04 (2006.01) **A61P 19/06** (2006.01)
C07D 241/18 (2006.01) **A61P 9/12** (2006.01)
A61K 31/44 (2006.01) **A61P 9/00** (2006.01)
A61K 31/444 (2006.01)

(21) International Application Number:

PCT/US2011/040585

(22) International Filing Date:

15 June 2011 (15.06.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/355,491 16 June 2010 (16.06.2010) US

(71) Applicant (for all designated States except US): **ARDEA BIOSCIENCES, INC.** [US/US]; 4939 Directors Place, San Diego, CA 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **OUK, Samedy** [KH/US]; 10790 Dabney Drive, Apt 2., San Diego, CA 92121 (US). **VERNIER, Jean-michel** [FR/US]; 5150 Sea Mist, San Diego, CA 92121 (US). **GUNIC, Esmir** [US/US]; 8952 Capcano Road, San Diego, CA 92129 (US). **CHEN, Chixu** [US/US]; 11618 Aspenview Drive, San Diego, CA 92128 (US).

(74) Agents: **MITCHELL, Gregory, W.** et al.; Wilson Sonsini Goodrich & Rosati, 650 Page Mill Road, Palo Alto, CA 94304-1050 (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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, 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))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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))

(88) Date of publication of the international search report:

19 April 2012

(54) Title: THIOACETATE COMPOUNDS, COMPOSITIONS AND METHODS OF USE

(57) Abstract: Described herein are compounds useful in the modulation of blood uric acid levels, formulations containing them and methods of using them. In some embodiments, the compounds described herein are used in the treatment or prevention of disorders related to aberrant levels of uric acid.



WO 2011/159839 A3