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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
8 April 2010 (08.04.2010)

PCT

(10) International Publication Number
WO 2010/040112 A3

(51) International Patent Classification:
C12N 15/63 (2006.01) *C12N 15/11* (2006.01)
C12N 15/12 (2006.01) *A61K 48/00* (2006.01)

(21) International Application Number:
PCT/US2009/059457

(22) International Filing Date:
2 October 2009 (02.10.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/102,681 3 October 2008 (03.10.2008) US
61/152,236 12 February 2009 (12.02.2009) US
61/176,267 7 May 2009 (07.05.2009) US

(71) Applicant *(for all designated States except US)*: **CuRNA, INC.** [US/US]; 555 Heritage Drive, Suite 110, Jupiter, FL 33458 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **COLLARD, Joseph** [US/US]; 1004 Brooks Lane, Delray Beach, FL 33483 (US). **KHORKOVA, Olga** [US/US]; 18288 Se Heritage Drive, Tequesta, FL 33469 (US).

(74) Agents: **ELAMRANI, Samir** 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, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, 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))*

(88) Date of publication of the international search report:
15 July 2010

(54) Title: TREATMENT OF APOLIPOPROTEIN-A1 RELATED DISEASES BY INHIBITION OF NATURAL ANTISENSE TRANSCRIPT TO APOLIPOPROTEIN-A1

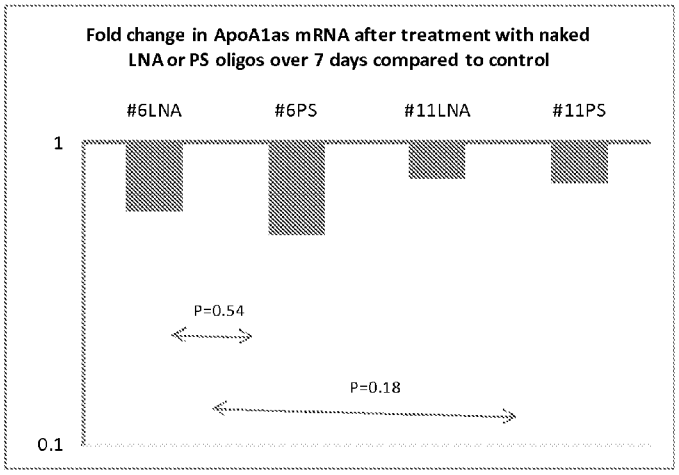


FIGURE 2

(57) Abstract: Oligonucleotide compounds modulate expression and/or function of an apolipoprotein (ApoAl) polynucleotides and encoded products thereof. Methods for treating diseases associated with apolipoprotein- Al (ApoAl) comprise administering one or more Oligonucleotide compounds designed to inhibit the Apo-Al natural antisense transcript to patients.

WO 2010/040112 A3