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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
19 June 2008 (19.06.2008)

PCT

(10) International Publication Number
WO 2008/073300 A2

(51) International Patent Classification:
C07K 16/00 (2006.01)

(21) International Application Number:
PCT/US2007/025080

(22) International Filing Date:
6 December 2007 (06.12.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/873,834 8 December 2006 (08.12.2006) US

(71) Applicant *(for all designated States except US)*: **LEXICON PHARMACEUTICALS, INC.** [US/US]; 8800 Technology Forest Place, The Woodlands, Texas 77381-1160 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LEE, E-chiang** [CN/US]; 3 White Wing Ct., The Woodlands, Texas 77382 (US). **LANDES, Gregory** [US/US]; 35 Silvermont Dr., The Woodlands, Texas 77382 (US). **HONG, Seokjoo** [KR/US]; 11 Heron Hollow Ct., The Woodlands, Texas 77382 (US). **DESAI, Urvi** [US/US]; 14 Columnberry Ct., The Woodlands, Texas 77384 (US). **POWELL, David** [US/US]; 5327 Stillbrooke Dr., Houston, Texas 77096 (US).

(74) Agent: **BARKER, M., Paul**; Finnegan, Henderson, Farabow, Garrett & Dunner LLP, 901 New York Avenue, N.W., Washington, D.C. 20001-4413 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

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

Published:

— *without international search report and to be republished upon receipt of that report*

— *with sequence listing part of description published separately in electronic form and available upon request from the International Bureau*

WO 2008/073300 A2

(54) **Title:** MONOCLONAL ANTIBODIES AGAINST ANGPTL3

(57) **Abstract:** Monoclonal antibodies that specifically bind to ANGPTL3 are provided. Monoclonal antibodies that neutralize at least one activity of ANGPTL3 are provided. Methods of treating a disorder of lipid metabolism using neutralizing monoclonal antibodies are provided.