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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 September 2008 (12.09.2008)

PCT

(10) International Publication Number
WO 2008/109314 A1

(51) International Patent Classification:
C07D 403/04 (2006.01) *A61K 31/422* (2006.01)
C07D 413/04 (2006.01) *A61K 31/427* (2006.01)
C07D 417/04 (2006.01) *A61P 29/00* (2006.01)
A61K 31/4196 (2006.01) *A61P 37/00* (2006.01)

(21) International Application Number:
PCT/US2008/055210

(22) International Filing Date:
28 February 2008 (28.02.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/904,357 1 March 2007 (01.03.2007) US

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

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **AUGERI, David J** [US/US]; 107 Carter Road, Princeton, New Jersey 08540 (US). **BAGDANOFF, Jeffrey** [US/US]; 31 Beacon Court, Robbinsville, New Jersey 08691 (US). **BAUGH, Simon, D., P.** [GB/US]; 71 Manners Road, Ringoes, New Jersey 08551 (US). **CARSON, Kenneth G.** [US/US]; 96 Herrontown Road, Princeton, New Jersey 08540 (US). **JESSOP, Theodore C.** [US/US]; 31 Merion Place, Lawrenceville, New Jersey 08648 (US). **TARVER, James E** [US/US]; 138 Independence Drive, Morrisville, Pennsylvania 19067 (US).

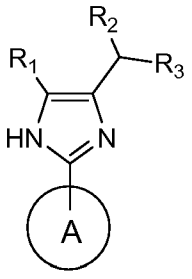
(74) Agent: **BACHRACH, Max**; Lexicon Pharmaceuticals, Inc., 8800 Technology Forest Place, The Woodlands, TX 77381 (US).

(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, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(54) Title: HETEROCYCLIC COMPOUNDS, COMPOSITIONS COMPRISING THEM AND METHODS OF THEIR USE



(I)

(57) Abstract: Heterocyclic compounds, compositions comprising them, and methods of their use for the treatment, prevention and management of inflammatory and autoimmune diseases and disorders are disclosed.

WO 2008/109314 A1