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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 September 2012 (20.09.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/125475 A1

(51) International Patent Classification:
A61K 31/495 (2006.01) *A61P 37/00* (2006.01)

(21) International Application Number:
PCT/US2012/028538

(22) International Filing Date:
9 March 2012 (09.03.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/451,995 11 March 2011 (11.03.2011) US
61/480,272 28 April 2011 (28.04.2011) US

(71) Applicant *(for all designated States except US)*: **CELGENE CORPORATION** [US/US]; 86 Morris Avenue, Summit, NJ 07901 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **GANDHI, Anita** [US/US]; 37 Sterling Road, Bernardsville, NJ 07924 (US). **SCHAFER, Peter, H.** [US/US]; 126 John E. Busch Ave., Somerset, NJ 08873 (US).

(74) Agents: **INSOGNA, Anthony, M.** et al.; Jones Day, 222 East 41st Street, New York, NY 10017-6702 (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, QA, RO, RS, RU, RW, 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, RW, 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).

Published:

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

— *with sequence listing part of description (Rule 5.2(a))*

WO 2012/125475 A1

(54) Title: USE OF 3-(5-AMINO-2-METHYL-4-OXOQUINAZOLIN-3(4H)-YL)PIPERIDINE-2-6-DIONE IN TREATMENT OF IMMUNE-RELATED AND INFLAMMATORY DISEASES

(57) Abstract: Provided herein are methods of using compounds and compositions for modulating lymphocytic activity, including activity of B cells and/or T cells, in immune-related diseases or inflammatory diseases. Pharmaceutical compositions and dosing regimens for use in the methods are also provided herein.