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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 May 2012 (24.05.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/068234 A2

(51) International Patent Classification:
C07D 403/14 (2006.01) *C07D 495/04* (2006.01)
C07D 405/14 (2006.01) *C07D 513/04* (2006.01)
C07D 417/14 (2006.01) *A61K 31/4178* (2006.01)
C07D 471/08 (2006.01) *A61K 31/4184* (2006.01)
C07D 491/10 (2006.01) *A61K 31/4188* (2006.01)
C07D 493/04 (2006.01) *A61P 31/12* (2006.01)

(21) International Application Number:
PCT/US2011/060966

(22) International Filing Date:
16 November 2011 (16.11.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/414,818 17 November 2010 (17.11.2010) US
61/504,924 6 July 2011 (06.07.2011) US

(71) Applicant *(for all designated States except US)*: **GILEAD SCIENCES, INC.** [US/US]; 333 Lakeside Drive, Foster City, California 94404 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BACON, Elizabeth, M.** [US/US]; 1218 Floribunda Ave., Apt. 8, Burlingame, California 94010 (US). **COTTELL, Jeromy, J.** [US/US]; 701 Baltic Circle, #719, Redwood City, California 94065 (US). **KATANA, Ashley, Anne** [US/US]; 2201 Bridgepoint Parkway, #205, San Mateo, California 94404 (US). **KATO, Darryl** [US/US]; 223 Connecticut Street, San Francisco, California 94107 (US). **KRYGOWSKI, Evan, S.** [US/US]; 3805 Bent Branch Road, Falls Church, Virginia 22041 (US). **LINK, John, O.** [US/US]; 74 Prospect Avenue, San Francisco, California 94110 (US). **TAYLOR, James** [US/US]; 100 State Street, San Mateo, California 94401 (US). **TRAN, Chinh, Viet** [US/US]; 10322 Baron Drive, San Diego, California 92126 (US). **TREJO MARTIN, Teresa, Alejandra** [US/US]; 32772 S. Artistry Loop, Union City, California 94587 (US). **YANG, Zheng-Yu** [US/US]; 338 El Carmelo Avenue, Palo Alto, California 94306 (US). **ZIPFEL, Sheila** [US/US]; 22 N. San Mateo Drive, Apt. 205, San Mateo, California 94401 (US).

(74) Agents: **HARRIS, Robert, J.** et al.; Viksnins Harris & Padys PLLP, P.O. Box 111098, St. Paul, Minnesota 55111-1098 (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).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

WO 2012/068234 A2

(54) Title: ANTIVIRAL COMPOUNDS

(57) Abstract: The invention is related to anti-viral compounds, compositions containing such compounds, and therapeutic methods that include the administration of such compounds, as well as to processes and intermediates useful for preparing such compounds.