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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 April 2011 (21.04.2011)

PCT

(10) International Publication Number
WO 2011/047319 A2

(51) International Patent Classification:
C07D 487/04 (2006.01) *A61P 31/04* (2006.01)
C07D 403/10 (2006.01) *A61P 31/00* (2006.01)
A61K 31/519 (2006.01)

(21) International Application Number:
PCT/US2010/052922

(22) International Filing Date:
15 October 2010 (15.10.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/252,478	16 October 2009 (16.10.2009)	US
61/314,287	16 March 2010 (16.03.2010)	US
61/358,201	24 June 2010 (24.06.2010)	US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:

US	61/314,287 (CIP)
Filed on	16 March 2010 (16.03.2010)
US	61/252,478 (CIP)
Filed on	16 October 2009 (16.10.2009)
US	61/358,201 (CIP)
Filed on	24 June 2010 (24.06.2010)

(71) Applicant *(for all designated States except US)*: **RIB-X PHARMACEUTICALS, INC.** [US/US]; 300 George Street, Suite 301, New Haven, CT 06511 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **DUFFY, Erin, M.** [US/US]; 349 River Road, Deep River, CT 06417 (US). **BHATTACHARJEE, Ashoke** [US/US]; 461 Cardinal Lane, Cheshire, CT 06410 (US).

(74) Agents: **ELRIFI, Ivor., R** et al.; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C., One Financial Center, Boston, MA 02111 (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, 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, 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:

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

WO 2011/047319 A2

(54) Title: ANTIMICROBIAL COMPOUNDS AND METHODS OF MAKING AND USING THE SAME

(57) Abstract: The present invention relates generally to the field of antimicrobial compounds and to methods of making and using them. These compounds are useful for treating, preventing, and reducing the risk of microbial infections in humans and animals.