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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 June 2013 (13.06.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/086133 A1

(51) **International Patent Classification**:
A61K 31/517 (2006.01)

(21) **International Application Number**:
PCT/US2012/068167

(22) **International Filing Date**:
6 December 2012 (06.12.2012)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
61/567,491 6 December 2011 (06.12.2011) US

(71) **Applicant** *(for all designated States except US)*: **THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY** [US/US]; 1705 El Camino Real, Palo Alto, CA 94306 (US).

(72) **Inventors; and**
(71) **Applicants** *(for US only)*: **EINAV, Shirit** [IL/US]; 1705 El Camino Real, Palo Alto, CA 94306 (US). **BAROUCH-BENTOV, Rina** [US/US]; 1705 El Camino Real, Palo Alto, CA 94306 (US). **NEVEU, Gregory** [FR/US]; 1705 El Camino Real, Palo Alto, CA 94306 (US). **ZIVAV, Amotz** [IL/US]; 1705 El Camino Real, Palo Alto, CA 94306 (US).

(74) **Agent**: **FOSTER, David, C.**; SNR Denton US LLP, 7800 Willis Tower, 233 South Wacker Dr., Chicago, IL 60606 (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, BN, 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, PA, 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, 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 2013/086133 A1

(54) **Title**: METHODS AND COMPOSITIONS FOR TREATING VIRAL DISEASES

(57) **Abstract**: The invention provides a method for treating viral infections and coinfections through the use of inhibitory agents that prevent a unique viral structural protein motifs from binding to host proteins from the clathrin adaptor proteins family and subsequently preventing viral replication.