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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
8 April 2004 (08.04.2004)

PCT

(10) International Publication Number
WO 2004/028473 A2

(51) International Patent Classification[7]: A61K

(21) International Application Number:
PCT/US2003/030538

(22) International Filing Date:
26 September 2003 (26.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/414,062 27 September 2002 (27.09.2002) US

(71) Applicant *(for all designated States except US)*: **TANOX, INC.** [US/US]; 10301 Stella Link Road, Houston, TX 77025 (US).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **FUNG, Sek, Chung** [US/US]; 3511 Deal Street, Huston, TX 77025 (US).

(74) Agent: **GUFFEY, Wendell, Ray**; Tanox, Inc., 10301 Stella Link Road, Houston, TX 77025 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (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*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/028473 A2

(54) Title: SYNERGISTIC COMPOSITIONS FOR THE PREVENTION AND TREATMENT OF ACQUIRED IMMUNODEFICIENCY SYNDROME

(57) Abstract: A method for preventing infection of helper T and other target cells by human immunodeficiency virus type 1 ("HIV-1") and for preventing or treating acquired immunodeficiency syndrome ("AIDS") by exposing target cells to a synergistic combination of at least one attachment inhibitor and at least one fusion inhibitor. The attachment inhibitors are compounds that bind to the CD4 receptor on target cells or that bind to gp120 on HIV-1, e.g., antibodies, and the fusion inhibitors compounds that interact with gp4l to inhibit or prevent its interaction with target cells, e.g., pentafuside.