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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number
WO 2005/072462 A2

(51) International Patent Classification: Not classified

(21) International Application Number:
PCT/US2005/003416

(22) International Filing Date: 27 January 2005 (27.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/539,753 28 January 2004 (28.01.2004) US

(71) Applicants and
(72) Inventors: **SHIH, Charles** [US/US]; Androscience, 11175 Flintkote Ave., Ste F, San Diego, CA 92121 (US). **SU, Ching-Yuan** [US/US]; Androscience, 11175 Flintkote Ave., Ste F, San Diego, CA 92130 (US).

(74) Agents: **PRESTON, David** et al.; David R Preston & Associates, 12625 High Bluff Drive, Suite 205, San Diego, CA 92130 (US).

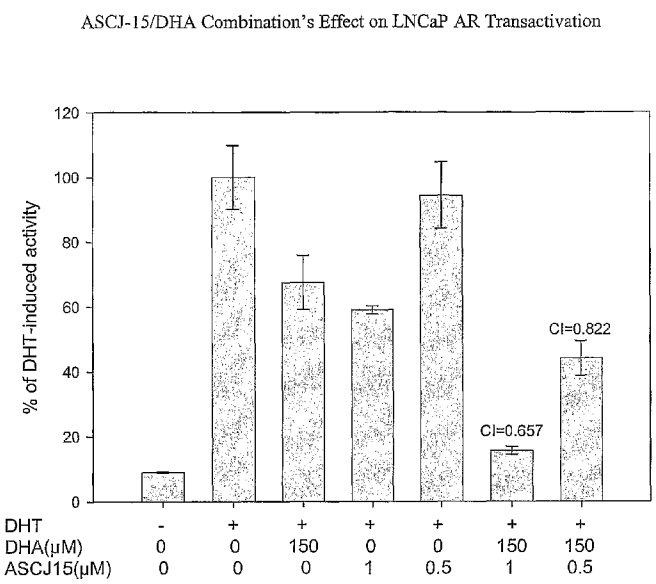
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, 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 *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, 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*

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.

(54) Title: ENHANCEMENT OF ANTI-ANDROGENIC ACTIVITY BY A COMBINATION OF INHIBITORS TARGETING DIFFERENT STEPS OF A STEROID-DEPENDENT GENE ACTIVATION PATHWAY AND USES THEREOF



(57) Abstract: The present invention includes novel methods and compositions for inhibiting or reducing steroid-dependent gene activation including the administration of at least two compounds that act different steps within a steroid receptor gene activation pathway. Preferred methods may include administering a first compound able to induce degradation of a steroid receptor and administering a second compound able to inhibit gene activation at a different step of the steroid receptor pathway. Steroid-dependent gene activation may be reduced or inhibited, modulated or controlled greater when the at least two of the compounds are administered in combination or together.

WO 2005/072462 A2