

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 December 2004 (23.12.2004)

PCT

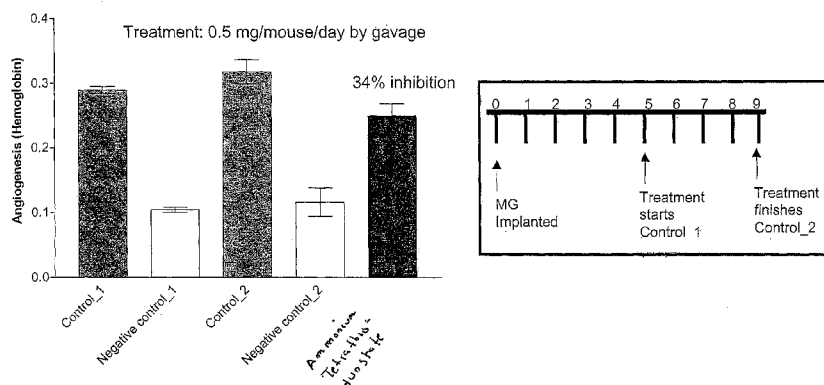
(10) International Publication Number
WO 2004/110364 A2

- (51) International Patent Classification⁷: **A61K** 92126 (US). **ALLAN, Amy, L.** [US/US]; 542 San Diego Drive, Encinitas, California 92024 (US). **PRICE, Melissa, L.P.** [US/US]; 908 Noltbey Street, Cardiff, California 92007 (US). **MAZAR, Andrew, P.** [US/US]; 10816 Vereda Sol Del Dios, San Diego, California 92130 (US).
- (21) International Application Number: PCT/US2004/016948
- (22) International Filing Date: 27 May 2004 (27.05.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/473,937 27 May 2003 (27.05.2003) US
- (71) Applicant (for all designated States except US): **ATTEN-UON L.L.C.** [US/US]; 10130 Sorrento Valley Road, Suite D, San Diego, California 92121 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **TERNANSKY, Robert, J.** [US/US]; 4215 Shorepointe Way, San Diego, California 92130 (US). **GLADSTONE, Patricia, L.** [CA/US]; 9242 Pebblestone Lane, San Diego, California
- (74) Agents: **PEASE, Ann, M.** et al.; 4 Embarcadero Center, Suite 3400, San Francisco, California 94111 (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),

[Continued on next page]

(54) Title: THIOTUNGSTATE ANALOGUES AND USES THEREOF

Ammonium Tetrathiotungstate by gavage five days after Matrigel implantation.
Angiogenesis



Control_1: Plugs removed when treatment starts
 Control_2: Plugs removed when treatment ends

(57) Abstract: The current invention provides novel thiotungstate derivatives, methods of making novel thiotungstate derivatives, pharmaceutical compositions of novel thiotungstate derivatives, methods of using novel thiotungstate derivatives to treat diseases associated with aberrant vascularization, copper metabolism disorders and obesity and methods of using pharmaceutical compositions of thiotungstate derivatives to treat diseases associated with aberrant vascularization, copper metabolism disorders, neurodegenerative disorders, obesity or NF-kB dysregulation.

WO 2004/110364 A2



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, 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).

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.

Published:

- *without international search report and to be republished upon receipt of that report*