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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
15 March 2001 (15.03.2001)

PCT

(10) International Publication Number
WO 01/18040 A3

(51) International Patent Classification[7]: A61K 38/22, 48/00, A61P 3/00, 9/00, 15/00, 35/00, 43/00 // (A61K 38/22, 31:52) (A61K 38/22, 38:17) (A61K 38/22, 31:185) (A61K 38/22, 31:195) (A61K 38/22, 38:19)

(21) International Application Number: PCT/IL00/00525

(22) International Filing Date:
4 September 2000 (04.09.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
131739 5 September 1999 (05.09.1999) IL
132312 10 October 1999 (10.10.1999) IL

(71) Applicant *(for all designated States except US)*: **YEDA RESEARCH AND DEVELOPMENT CO. LTD.** [IL/IL]; Weizmann Institute of Science, P.O. Box 95, 76100 Rehovot (IL).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **RUBINSTEIN, Menachem** [IL/IL]; 16 Hatomer Street, 54042 Givat Shmuel (IL). **COHEN, Batya** [IL/IL]; Rechov Arlosoroff 182, 64923 Tel Aviv (IL). **BARKAN, Dalit** [IL/IL]; Vilkomitch Street 22/A, 76448 Rehovot (IL).

(74) Agent: **EINAV, Henry**; Inter-Lab Ltd., Science-based Industrial Park, Kiryat Weizmann, 76100 Ness-Ziona (IL).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, 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, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
— *With international search report.*

(88) Date of publication of the international search report:
14 June 2001

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 01/18040 A3

(54) Title: USE OF LEPTIN IN INHIBITION OF ENDOTHELIAL CELL PROLIFERATION

(57) Abstract: Disclosed is the use of leptin, optionally together with VEGF inhibitors, in inhibition of endothelial cell proliferation and modulation of angiogenesis.