(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 01/17508 A1

(51) International Patent Classification[7]: A61K 9/127

(21) International Application Number: PCT/US00/24579

(22) International Filing Date:
8 September 2000 (08.09.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/392,976 9 September 1999 (09.09.1999) US

(71) Applicant *(for all designated States except US)*: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; 12th Floor, 1111 Franklin Street, Oakland, CA 94607-5200 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: MCDONALD, Donald, M. [US/US]; 67 Parker Avenue, San Francisco, CA 94118 (US). MCLEAN, John, W. [NZ/US]; 782 Lakeshore Drive, Redwood City, CA 94065 (US). THURSTON, O., Gavin [CA/US]; 1839 10th Avenue, San Francisco, CA 94122 (US).

(74) Agent: BORDEN, Paula, A.; Bozicevic, Field & Francis LLP, Suite 200, 200 Middlefield Road, Menlo Park, CA 94025 (US).

(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.*

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 01/17508 A1

162162

G00001

(54) Title: CATIONIC LIPOSOME DELIVERY OF TAXANES TO ANGIOGENIC BLOOD VESSELS

(57) Abstract: Angiogenic endothelial cells are selectively targeted with lipid/DNA complexes or cationic liposomes containing a substance which affects the targeted cells by inhibiting or promoting their growth. A site of angiogenesis can be precisely located by administering cationic liposomes containing a detectable label. The complexes may comprise nucleotide constructs which are comprised of promoters which are selectively and exclusively activated in the environment of an angiogenic endothelial cell.