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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number
WO 2004/004757 A1

(51) International Patent Classification[7]: A61K 38/43

(21) International Application Number:
PCT/US2003/020672

(22) International Filing Date: 1 July 2003 (01.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/393,505 2 July 2002 (02.07.2002) US

(71) Applicants *(for all designated States except US)*: **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA** [US/US]; Office of the President, 1111 Franklin Street, 12th Floor, Oakland, Ca 94607-5200 (US). **THE CALIFORNIA INSTITUTE OF TECHNOLOGY** [US/US]; 1200 E. California Blvd., Pasadena, CA 91125 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **SCHWARTZ, Daniel, M.** [US/US]; 42 Calhoun Terrace, San Francisco, CA 94133 (US). **FRASER, Scott** [US/US]; 503 Dartmouth Place, LaCanada-Flintridge, CA 91011 (US). **GRUBBS, Robert, H.** [US/US]; 1700 Spruce Street, South Pasadena, CA 91030 (US). **GALLIVAN, Justin, P.** [US/US]; 1128 Cordova St., Pasadena, CA 91106 (US). **YU, C., J.** [US/US]; 118 South Berkeley Avenue, Pasadena, CA 91107 (US).

(74) Agent: **SISTRUNK, Melissa, L.**; Fulbrigth & Jaworski, L.L.P., Suite 5100, 1301 McKinney, Houston, TX 77010-3095 (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:
— *with international search report*

(48) Date of publication of this corrected version:
7 October 2004

(15) Information about Correction:
see PCT Gazette No. 41/2004 of 7 October 2004, Section II

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: TREATMENT FOR EYE DISORDER

(57) Abstract: The present invention relates to altering the physical and/or chemical properties of at least part of at least one tissue in the eye. In a specific embodiment, it relates to the treatment of any eye disorder, although in particular embodiments the individual has a thickened Bruch's membrane. An activating energy source is utilized to effect a controlled diffusion enhancement and/or degradation of Bruch's membrane that enables improved diffusional transport between the choroid and retina. The individual is administered an inactivated diffusion-enhancing molecule that becomes associated with the membrane, which is then precisely exposed to an activating energy source, such as light or ultrasound.

WO 2004/004757 A1