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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
14 June 2001 (14.06.2001)

PCT

(10) International Publication Number
WO 01/41812 A3

(51) International Patent Classification[7]: A61K 47/48

(21) International Application Number: PCT/US00/33592

(22) International Filing Date:
11 December 2000 (11.12.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/459,443 13 December 1999 (13.12.1999) US

(71) Applicant *(for all designated States except US)*: **NOBEX CORPORATION** [US/US]; Post Office Box 13940, Research Triangle Park, NC 27709-3940 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **EKWURIBE, Nnochiri, N.** [NG/US]; 216 Coltsgate Drive, Cary, NC 27511 (US).

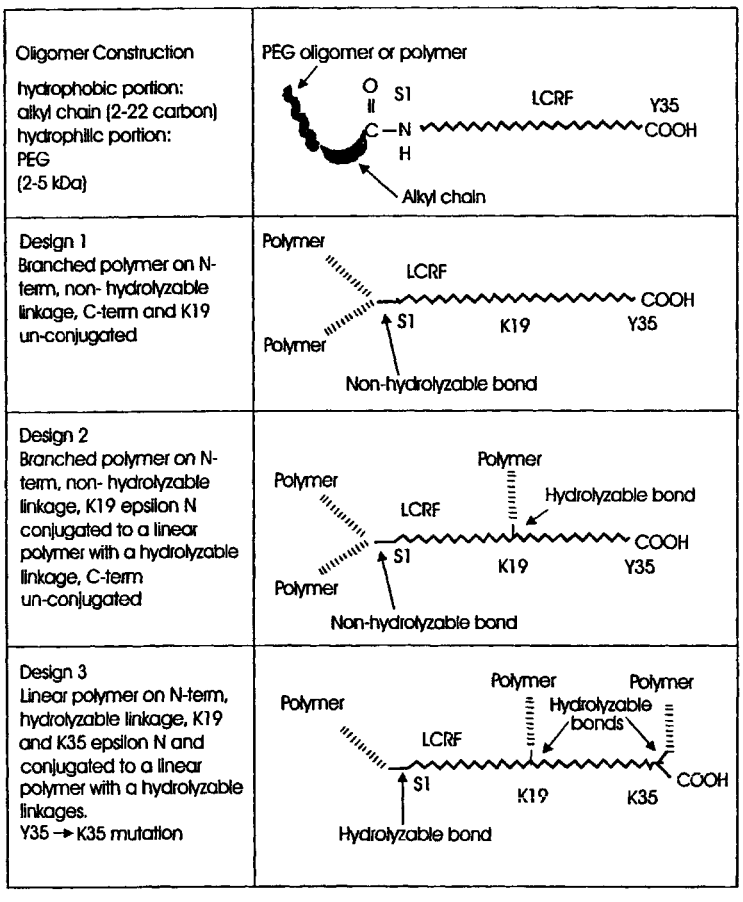
(74) Agents: **STRICKLAND, Michael, J.** et al.; Myers Bigel Sibley & Sajovec, P.A., P.O. Box 37428, Raleigh, NC 27627 (US).

(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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: AMPHIPHILIC POLYMERS AND POLYPEPTIDE CONJUGATES COMPRISING SAME



(57) Abstract: Proteins and/or peptides, such as luminal cholecystokinin releasing factor (LCRF), are conjugated with amphiphilic oligomers and polymers. Such conjugates may modulate the pharmacokinetic profile of the proteins and/or peptides, thereby improving their clinical utility. Such conjugates may also stabilize and deliver the proteins and/or peptides, such as LCRF, to receptors in the gut without absorption into the bloodstream.

WO 01/41812 A3

Published:
— *with international search report*

(88) Date of publication of the international search report:
21 March 2002

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.