(2004077467)

27 DEC. 2004

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

(19) World Intellectual Property Organization
International Bureau

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

PCT

(10) International Publication Number
WO 2004/005459 A3

(51) International Patent Classification[7]: C12N 15/00, 15/11, G06F 19/00

(21) International Application Number: PCT/US2003/016248

(22) International Filing Date: 2 July 2003 (02.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/393,558 5 July 2002 (05.07.2002) US
10/609,383 1 July 2003 (01.07.2003) US

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(81) Designated States (national): AE, AG, AL, AU, BA, BB, BR, BZ, CA, CN, CO, CR, DM, DZ, EC, GD, GE, HU, ID, IL, IN, IS, JP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, SG, TN, TT, UA, UZ, VN, YU, ZA.

(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
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
24 February 2005

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.



162162



ACTION

WO 2004/005459 A3

(54) Title: MODIFYING THE CONTROL OF GENE EXPRESSION BEHAVIOR BY THE DELETION OF CONNECTRONS AND BY THE DESIGN AND ADDITION OF SYNTHETIC CONNECTRONS IN PROKARYOTIC, ARCHEA AND EUKARYOTIC GENOMES

(57) Abstract: The connectron structure of a genome determines sets of four DNA sequences of minimum length of 15-bases (C1 and C2 which are in the 3'UTR of a gene, T1 which is on the 5'-side and T2 which is on the 3'-side of a set of genes). The connectron state of a genome provides information that makes it possible to decide where and how connectrons can be deleted from the native genome or added to the native genome to modify genomic gene expression behavior.