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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
17 July 2003 (17.07.2003)

PCT

(10) International Publication Number
WO 03/056912 A3

(51) International Patent Classification[7]: C12N 15/00, A01K 67/027, C12N 15/90, 9/22, 15/85, A01K 67/033, C12N 15/10

(21) International Application Number: PCT/GB03/00065

(22) International Filing Date: 9 January 2003 (09.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/347,107	9 January 2002 (09.01.2002)	US
0200419.0	9 January 2002 (09.01.2002)	GB
0211242.3	16 May 2002 (16.05.2002)	GB

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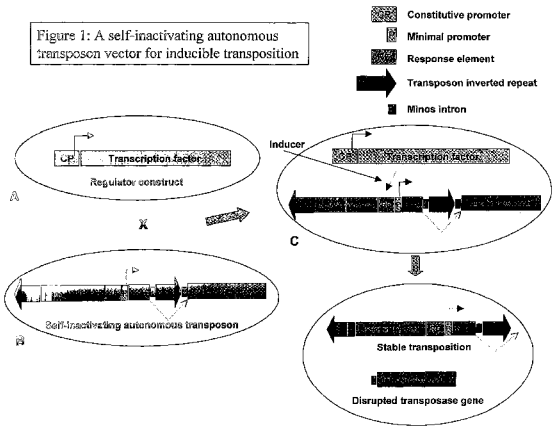
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(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, 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, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: INDUCIBLE TRANSPOSITION IN TRANSGENIC ORGANISM USING TRANSPOSON VECTOR



(57) Abstract: A method of inducing transposition in a transgenic embryo is described, comprising the steps of (a) generating a first adult transgenic organism comprising within its genome one or more copies of a transposon; (b) generating a second adult transgenic organism comprising within its genome one or more copies of a gene encoding a transposase cognate for said transposon and/or a sequence capable of regulating expression of said gene encoding the transposase; (c) crossing the first adult transgenic organism with the second transgenic adult organism to provide a progeny which comprises, in the genome of one or more of its cells, both (i) one or more copies of the transposon and (ii) a gene encoding a transposase cognate for said transposon, wherein the gene encoding the transposase is under the control of one or more inducible regulatory sequences which permit expression of the transposase, and (d) inducing expression of said gene encoding the transposase in said embryo to cause mobilisation of said transposon within at least a portion of the tissues or cells of the progeny. Using the method, mobilisation of a transposon can advantageously be induced at predetermined stages of development of an embryo and the mutated gene of a single cell may be replicated in subsequent cell divisions, resulting in groups of cells which are essentially homogeneous for the transposed gene.

WO 03/056912 A3

Declaration under Rule 4.17:
— *of inventorship (Rule 4.17(iv)) for US only*

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:
16 October 2003

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