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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREAT

(51) International Patent Classification 6 : C12Q 1/68, C12N 15/00 — A1

(11) International Publication Number: WO 98/31837

(43) International Publication Date: 23 July 1998

(21) International Application Number: PCT/US98/00852

(22) International Filing Date: 16 January 1998 (16.01.98)

(30) Priority Data:
60/035,054 — 17 January 1997 (17.01.97) — US

(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application
US 60/035,054 (CIP)
Filed on 17 January 1997 (17.01.97)

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(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BB, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, 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 the receipt of amendments.

(54) Title: EVOLUTION OF WHOLE CELLS AND ORGANISMS BY RECURSIVE SEQUENCE RECOMBINATION

(57) Abstract

The invention provides methods employing iterative cycles of recombination and selection/screening for evolution of whole cells and organisms toward acquisition of desired properties. Examples of such properties include enhanced recombinogenicity, genome copy number, and capacity for expression and/or secretion of proteins and secondary metabolites.

9902993-6
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