

Title (en)
WHOLE CELL ENGINEERING BY MUTAGENIZING A SUBSTANTIAL PORTION OF A STARTING GENOME, COMBINING MUTATIONS, AND OPTIONALLY REPEATING

Title (de)
MANIPULATION VON GANZEN ZELLEN DURCH MUTATION EINES GROSSTEILS DES STARGENOMS, KOMBINATION DER MUTATIONEN UND WAHLWEISES WIEDERHOLEN

Title (fr)
INGENIERIE CELLULAIRE COMPLETE PAR MUTAGENESE D'UNE PARTIE SUBSTANTIELLE D'UN GENOME DE DEPART, PAR COMBINAISON DE MUTATIONS ET EVENTUELLEMENT REPETITION

Publication
EP 1294869 A2 20030326 (EN)

Application
EP 01944583 A 20010614

Priority
• US 67758400 A 20000930
• US 0119367 W 20010614
• US 59445900 A 20000614

Abstract (en)
[origin: WO0196551A2] An invention comprising cellular transformation, directed evolution, and screening methods for creating novel transgenic organisms having desirable properties. Thus in one aspect, this invention relates to a method of generating a transgenic organism, such as a microbe or a plant, having a plurality of traits that are differentially activatable. Also, a method of retooling genes and gene pathways by the introduction of regulatory sequences, such as promoters, that are operable in an intended host, thus conferring operability to a novel gene pathway when it is introduced into an intended host. For example a novel man-made gene pathway, generated based on microbially-derived progenitor templates, that is operable in a plant cell. Furthermore, a method of generating novel host organisms having increased expression of desirable traits, recombinant genes, and gene products.

IPC 1-7
C12N 15/10; C12Q 1/68

IPC 8 full level
C12N 15/10 (2006.01); **C12N 15/82** (2006.01); **G01N 33/534** (2006.01); **G01N 33/68** (2006.01)

CPC (source: EP)
C12N 15/102 (2013.01); **C12N 15/1027** (2013.01); **C12N 15/1058** (2013.01); **C12N 15/8241** (2013.01); **G01N 33/534** (2013.01); **G01N 33/6818** (2013.01)

Citation (search report)
See references of WO 0196551A2

Citation (examination)
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Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0196551 A2 20011220; WO 0196551 A3 20020523; AU 6697801 A 20011224; CA 2413022 A1 20011220; EP 1294869 A2 20030326

DOCDB simple family (application)
US 0119367 W 20010614; AU 6697801 A 20010614; CA 2413022 A 20010614; EP 01944583 A 20010614