Title (en)

METHODS FOR DETECTING GENOME-WIDE SEQUENCE VARIATIONS ASSOCIATED WITH A PHENOTYPE

Title (de)

METHODEN ZUR DETEKTION GENOM-ÜBERSPANNENDER SEQUENZVARIATIONEN, WELCHE MIT EINEM PHENOTYP ASSOZIIERT SIND

Title (fr)

PROCEDES DE DETECTION DE VARIATIONS DE SEQUENCE A L'ECHELLE DU GENOME ASSOCIEES A UN PHENOTYPE

Publication

EP 1483404 A2 20041208 (EN)

Application

EP 03706768 A 20030305

Priority

- GB 0300941 W 20030305
- GB 0205153 A 20020305
- US 36202302 P 20020305

Abstract (en)

[origin: WO03074734A2] The invention provides methods for determining genome-wide sequence variations associated with phenotype of a species in a hypothesis-free manner. In the methods of the invention, a set of restriction fragments for each of a sub-population of individuals having the phenotype are generated by digesting nucleic acids from the individual using one or more different restriction enzymes. A set of restriction sequence tags for the individual is then determined from the set of restriction fragments. The restriction sequence tags for the sub-population of organisms are compared and grouped into one or more groups, each of which comprising restriction sequence tags that comprise homologous sequences. The obtained one or more groups of restriction sequence tags identify the sequence variations associated with the phenotype. The methods of the invention can be used for, e.g., analysis of large numbers of sequence variants in many patient samples to identify subtle genetic risk factors.

IPC 1-7 (main, further and additional classification)

C12Q 1/68

IPC 8 full level (invention and additional information)

G01N 21/78 (2006.01); **C12N 15/09** (2006.01); **C12Q 1/68** (2006.01)

CPC (invention and additional information)

C12Q 1/6809 (2013.01); C12Q 1/6876 (2013.01)

Combination set (CPC)

C12Q 1/6809 + C12Q 2521/301

Citation (search report)

See references of WO 03074734A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

EPO simple patent family

WO 03074734 A2 20030912; WO 03074734 A3 20040219; AU 2003208480 A1 20030916; CA 2478722 A1 20030912; EP 1483404 A2 20041208; JP 2005518811 A 20050630; KR 20050008651 A 20050121

INPADOC legal status

2007-04-04 [18D] APPLICATION DEEMED TO BE WITHDRAWN
- Effective date : 20061003

2005-12-28 [RAP1] TRANSFER OF RIGHTS OF AN APPLICATION
- Owner name : SOLEXA LTD.

2005-12-28 [RAP1] TRANSFER OF RIGHTS OF AN APPLICATION
- Owner name : SOLEXA, INC

2004-12-08 [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 20041005

2004-12-08 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A2
- Designated State(s) : AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

2004-12-08 [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Countries : AL LT LV MK