

Title (en)

HUMAN TOXICOLOGICALLY RELEVANT GENES AND ARRAYS

Title (de)

TOXIKOLOGISCH RELEVANTE MENSCHLICHE GENE UND ARRAYS

Title (fr)

GENES ET JEUX ORDONNES D'ECHANTILLONS HUMAINS PERTINENTS SUR LE PLAN TOXICOLOGIQUE

Publication

EP 1427850 A4 20060208 (EN)

Application

EP 02757259 A 20020816

Priority

- US 0226514 W 20020816
- US 31308001 P 20010816

Abstract (en)

[origin: WO03016500A2] The invention provides for a set of toxicologically relevant human genes which may be used to predict toxicological responses on a cellular, organ, or system level. Methods of identifying, selecting, isolating, and evaluating toxicologically relevant human genes are provided. Arrays comprising human genes that are useful for toxicological screening of drugs, pharmaceutical compounds, or chemicals are also provided. The human array provides a method by which toxicological responses can analyzed in a rapid and efficient manner. Methods of identifying and isolating human genes for a human array are also provided. Further, methods of making a human gene array and using a human gene array are disclosed. These methods are also useful for isolating human genes and for discovery of novel human genes. Also provided is a database of human toxicological responses which are useful for predicting toxicological response to agents on a cellular level, organ-by-organ, and system-by-system. Methods of obtaining such databases containing human toxicological data and methods of use are also provided herein. Further, algorithms which allows for evaluation and/or 1 analysis of toxicological data are also provided herein.

IPC 1-7

C12Q 1/68; G06F 19/00; G01N 33/04; G01N 33/50; C07H 21/04; C07H 21/00; C12P 19/34; C12M 1/34

IPC 8 full level

C12Q 1/68 (2006.01); **C12Q 1/6883** (2018.01)

CPC (source: EP)

C12Q 1/6883 (2013.01); **C12Q 2600/158** (2013.01)

Citation (search report)

- [X] WO 0132928 A2 20010510 - PHASE 1 MOLECULAR TOXICOLOGY [US], et al
- [A] US 5811231 A 19980922 - FARR SPENCER B [US], et al
- [A] WO 0111030 A2 20010215 - HEPAVEC AG FUER GENTHERAPIE [DE], et al
- [E] WO 03062395 A2 20030731 - BRISTOL MYERS SQUIBB CO [US], et al
- [X] YU ZHE ET AL: "Identification of genes responsive to BPDE treatment in HeLa cells using cDNA expression assays", ENVIRONMENTAL AND MOLECULAR MUTAGENESIS, vol. 36, no. 3, 2000, pages 201 - 205, XP009054561, ISSN: 0893-6692
- See references of WO 03016500A2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 03016500 A2 20030227; **WO 03016500 A3 20030619**; AU 2002323286 A1 20030303; EP 1427850 A2 20040616; EP 1427850 A4 20060208

DOCDB simple family (application)

US 0226514 W 20020816; AU 2002323286 A 20020816; EP 02757259 A 20020816