

Title (en)
METHOD FOR IDENTIFYING ORGANISMS BY MEANS OF COMPARATIVE GENETIC ANALYSIS AND PRIMERS AND HYBRIDISATION PROBES FOR CARRYING OUT THIS METHOD

Title (de)
VERFAHREN ZUR IDENTIFIZIERUNG VON ORGANISMEN DURCH VERGLEICHENDE GENETISCHE ANALYSE SOWIE PRIMER UND HYBRIDISATIONSSONDEN ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)
PROCEDE D'IDENTIFICATION D'ORGANISMES PAR ANALYSE GENETIQUE COMPARATIVE, AMORCEUR ET SONDAS D'HYBRIDATION UTILISES POUR LA MISE EN OEUVRE DE CE PROCEDE

Publication
EP 1169478 A2 20020109 (DE)

Application
EP 00918802 A 20000316

Priority
• DE 19911656 A 19990316
• DE 19964112 A 19991231
• EP 0002330 W 20000316

Abstract (en)
[origin: WO0055361A2] The invention comprises methods, primers and hybridisation probes for identifying organisms by means of comparative genetic analysis and is characterised in that coding and non-coding areas and/or functionally significant areas of highly conserved genes, pseudogenes or homologues are amplified using the PCR and then genotyped and analysed. The comparison of coding and non-coding areas of highly conserved genes, pseudogenes or homologues ensures that a single oligonucleotide pair bonds to DNA sequences that are highly conserved between different species, hereby allowing the amplification of a gene segment that is identical for all of the species. The oligonucleotides include one or more gene areas with the greatest possible sequence differences between different species. The determination of the gene sequence of this highly polymorphous area in a subsequent reaction step enables the gene sequence to be allocated to a specific species. In particularly preferred variants of embodiments of the invention, oligonucleotide pairs are found that make it possible to amplify the highly conserved tumour suppresser gene PTEN/MMAC1, its pseudogene and their homologues.

IPC 1-7
C12Q 1/68

IPC 8 full level
G01N 33/53 (2006.01); **C12M 1/34** (2006.01); **C12N 15/09** (2006.01); **C12Q 1/68** (2006.01); **G01N 33/566** (2006.01)

CPC (source: EP)
C12Q 1/6876 (2013.01); **C12Q 1/6895** (2013.01); **C12Q 2600/156** (2013.01)

Citation (search report)
See references of WO 0055361A2

Citation (examination)
BERNARD P.S. ET AL: "Homogenous Multiplex Genotyping of Hemochromatosis Mutations with Fluorescent Hybridization Probes", AMERICAN JOURNAL OF PATHOLOGY, vol. 153, no. 4, 1998, pages 1055 - 1061

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

DOCDB simple family (publication)
WO 0055361 A2 20000921; **WO 0055361 A3 20011018**; AU 3962100 A 20001004; DE 10014575 A1 20001130; EP 1169478 A2 20020109; JP 2002538835 A 20021119

DOCDB simple family (application)
EP 0002330 W 20000316; AU 3962100 A 20000316; DE 10014575 A 20000316; EP 00918802 A 20000316; JP 2000605777 A 20000316