

Title (en)

DETECTION AND ANALYSIS OF METHYLATION IN NUCLEIC ACID SEQUENCES

Title (de)

NACHWEIS UND ANALYSE VON METHYLIERUNGEN IN NUKLEINSÄURESEQUENZEN

Title (fr)

DÉTECTION ET ANALYSE DE MÉTHYLATION DANS DES SÉQUENCES D'ACIDE NUCLÉIQUE

Publication

EP 2464748 A4 20121205 (EN)

Application

EP 10807798 A 20100812

Priority

- AU 2009903788 A 20090812
- AU 2010001028 W 20100812

Abstract (en)

[origin: WO2011017760A1] Provided herein are methods for the identification of methylated cytosine bases in a nucleotide sequence, the method comprising the steps of: (a) generating fragments of a DNA molecule comprising the nucleotide sequence such that the fragments comprise at least one single-stranded terminus comprising one or more bases and wherein at least one base within the single-stranded terminus is an unmethylated cytosine or methylcytosine; (b) incubating the fragments with bisulfite under non-denaturing conditions such that only unmethylated cytosines within the at least one single-stranded terminus are converted to uracil; and (c) detecting fragments comprising methylcytosine or uracil bases in the at least one single-stranded terminus. Also provided are methods for the diagnosis of, or determination of susceptibility to, diseases associated with aberrant cytosine methylation.

IPC 8 full level

C12Q 1/68 (2006.01); **C07H 21/04** (2006.01); **G01N 33/50** (2006.01)

CPC (source: EP)

C12Q 1/6827 (2013.01)

Citation (search report)

- [XAI] WO 2004050915 A1 20040617 - SOLEXA LTD [GB], et al
- See references of WO 2011017760A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

WO 2011017760 A1 20110217; AU 2010282225 A1 20120405; EP 2464748 A1 20120620; EP 2464748 A4 20121205

DOCDB simple family (application)

AU 2010001028 W 20100812; AU 2010282225 A 20100812; EP 10807798 A 20100812