

Title (en)

METHOD FOR IDENTIFYING CYTOSINE METHYLATION PATTERNS IN GENOMIC DNA

Title (de)

VERFAHREN ZUR IDENTIFIKATION VON CYTOSIN-METHYLIERUNGSMUSTERN IN GENOMISCHER DNA

Title (fr)

PROCEDE D'IDENTIFICATION DE MODELES DE METHYLATION DE CYTOSINE DANS L'ADN GENOMIQUE

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Application

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Abstract (en)

[origin: WO0031294A2] The invention relates to a method for identifying 5-methylcytosine positions in genomic DNA. The method is characterised by the following steps: a) the genomic DNA of a cell, a cell line, a tissue or an individual is chemically treated in such a way that the cytosine and 5-methylcytosine react differently and the two products present different base pairing behaviour in the duplex; b) the same nucleic acid section is amplified by means of a polymerase reaction; c) the same nucleic acid section of at least one other cell, cell line, tissue or individual or of any given reference DNA is treated according to steps a) and b); d) heteroduplexes are formed from the at least two amplification products obtained in steps b) and c); and e) a detectable marking is introduced into the heteroduplexes by means of a reaction that is specific to non-complementary base pairs.

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