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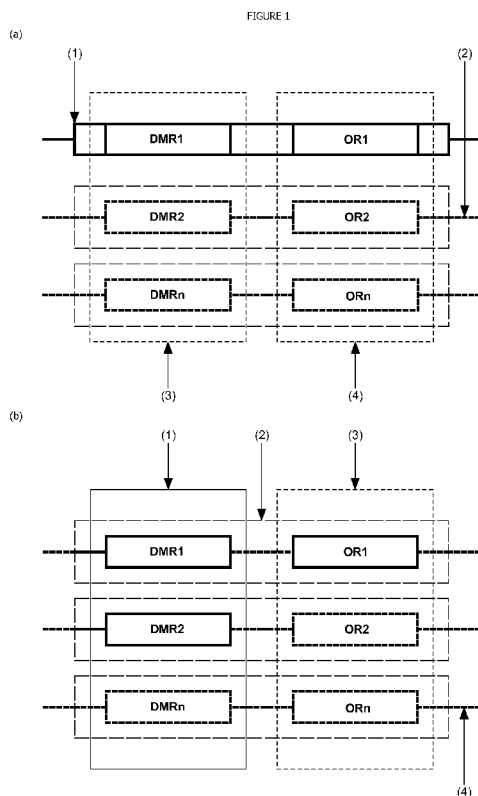
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(54) Title: DETECTION OF DNA THAT ORIGINATES FROM A SPECIFIC CELL-TYPE AND RELATED METHODS



(57) Abstract: The present invention relates to methods to detect an amount of DNA that originates from cells of a given type, where the sample comprising such DNA in admixture with DNA that does not originate from such cells. Such methods are based on differential methylation, at certain regions, of the DNA that originates from the given type of cells compared to the admixed DNA. Such methods have particular application in the detection, from a biological fluid from a pregnant female, of cell free DNA that originates from a foetus or the placenta of a foetus, or the detection, from a biological fluid from an individual, of cell free DNA that originates from cells of a tumour. Accordingly, such methods have diagnostic, prognostic and/or predictive utility for detecting an increased risk of an individual suffering from or developing a medical condition such as preeclampsia or cancer, and/or to aid (subsequent)diagnostic, prognostic and/or predictive methods such as the detection of chromosomal trisomy in a foetus, including for twin- pregnancies. The present invention also relates to compositions, kits, computer program products and other aspects that are used in, useful for or related to the practice of such methods.



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