

Title (en)  
GEOMETRICAL AND HIERARCHICAL CLASSIFICATION BASED ON GENE EXPRESSION

Title (de)  
GEOMETRISCHE UND HIRARCHISCHE KLASSIFIZIERUNG DER GENEXPRESSION

Title (fr)  
CLASSIFICATION GEOMETRIQUE ET HIERARCHIQUE FONDEE SUR L'EXPRESSION GENETIQUE

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Application  
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Abstract (en)  
[origin: WO0015851A1] The present invention provides a method for generating a representation of the extent of relatedness between at least two classes of cells. The invention also provides a method for generating a representation of the correlation between a first class of cells and a second class of cells. The correlation reflects a change in the nature and amount of nucleic acids present in the classes. In these methods, the cells in each class are chosen from among cells of a given cell type, cells from a given tissue, and cells from a given organ. The methods establish similarities or differences between the classes by defining a plurality of pairs of nucleotide subsequences, each pair consisting of a first subsequence and a second subsequence, and, in the nucleic acid of each class of cells, determining the presence of a fragment with the first subsequence at one end and the second subsequence at another end and having a length separated by the first and second subsequences, as well as a quantitation of the extent to which each fragment is present. The methods then determine the extent of relatedness reflecting the similarities or differences among the classes. The invention further provides display means displaying a representation of the extent of relatedness between the classes of cells, and displaying a representation of the correlation between the first class of cells and the second class of cells. Additionally, the invention provides a representation of the extent of relatedness between the classes of cells, and representation of the correlation between the first class of cells and the second class of cells.

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