

Title (en)

ARRAYS COMPRISING A FIDUCIAL AND AUTOMATED INFORMATION PROCESSING IN RANDOMLY ORDERED ARRAYS

Title (de)

MATRIZEN MIT BEZUGSMARKIERUNG UND AUTOMATISIERTER INFORMATIONSBEBANDLUNG MIT FREI WÄHLBAR ANGEORDNETEN MATRIZEN

Title (fr)

TRAITEMENT INFORMATISE D'INFORMATIONS DANS DES GROUPEMENTS ORDONNES DE MANIERE ALEATOIRE

Publication

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Application

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Abstract (en)

[origin: WO0047996A2] The invention relates to the use of a computer system to compare images generated from a randomly ordered array. This system preserves the relative position of each site within the array so that the same site can be compared in different images.

[origin: WO0047996A2] The present invention provides array compositions comprising a substrate with a surface comprising discrete sites, at least one fiducial, and a population of microspheres comprising at least a first and a second subpopulation, each comprising a bioactive agent, and distributed on said surface. Each subpopulation may optionally comprise a unique optical signature, an identifier binding ligand, or both. The invention further provides compositions comprising a computer readable memory, comprising data acquisition, registration, and comparison modules to direct a computer to function in a specified manner. The registration module may utilize any number of fiducials, including a fiducial fiber, a fiducial microsphere, or a fiducial template generated from the random array. In further aspects, the invention provided methods of making the array compositions of the invention, for comparing separate data images of a random array, for decoding a random array composition, and for determining the presence of a target analyte in a sample.

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See references of WO 0047996A2

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