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with international search report

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: LIFE SCIENCES BUSINESS SYSTEMS AND METHODS

(57) Abstract: Improved life sciences business systems and methods are disclosed. One or more genomes are scanned for single nucleotide polymorphisms. The polymorphisms are assigned to haplotype blocks, and representative SNPs from the haplotype blocks are used in association studies for pharmaceutical and diagnostic developments.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/09832

	PC1/0303/09032
A. CLASSIFICATION OF SUBJECT MATTER	
IPC(7) : C12Q 1/68	
US CL : 435/6	
According to International Patent Classification (IPC) or to both national classification and IPC	
B. FIELDS SEARCHED	
Minimum documentation searched (classification system followed by classification symbols)	
U.S.: 435/6	
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)	
STN, WEST, haplotype block, whole wafer, dna, snp, snps, single nucleotide polymorphism	
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C. DOCUMENTS CONSIDERED TO BE RELEVANT	
Category * Citation of document, with indication, where	appropriate, of the relevant passages Relevant to claim No.
Y PATIL, N. et al, Blocks of limited haplotype dive	ersity revealed by high-resolution 1-19, 21-25, 28, 29,
scanning of human chromosome 21, Science, 23 N	November 2001, Vol. 294, pages 1719- 32, 33, and 59
1723, see entire document.	
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Further documents are listed in the continuation of B. C.	C
Further documents are listed in the continuation of Box C.	See patent family annex.
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"A" document defining the general state of the art which is not considered to	priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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de la	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the	
Date of the actual completion of the international search	Date of mailing of the international search report
of the army reached of the international search	O O O T 2003
16 October 2003 (16.10.2003)	28 UU   2005 .
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Form PCT/ISA/210 (second sheet) (July 1998)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/09832

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)	
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. Claim Nos.:  because they relate to subject matter not required to be searched by this Authority, namely:  The claims are so vague and indefinite that no meaningful search can be performed.	
2. Claim Nos.: 20,26,27,30,31,34-58 and 60-62 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:	
3. Claim Nos.:  because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite	
payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest The additional search fees were accompanied by the applicant's protest.	
No protest accompanied the payment of additional search fees.	

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