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KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,  
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(54) Title: ASSOCIATIONS USING GENOTYPES AND PHENOTYPES

(57) Abstract: The present invention discloses methods for combining data on genetic variations and phenotypes of individuals to predict a phenotype-of-interest. The present invention also discloses kits that can be used to determine if an individual has or does not have a phenotype-of-interest. The kit can include at least one diagnostic tool and written instructions.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US06/02618

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: **G01N 33/48( 2006.01);C12Q 1/00( 2006.01)**  
  
 USPC: 702/19;435/4  
 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. : 702/19; 435/4

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)  
 Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x --- y	US 6,969,589 (Patil et al.) 26 March 2002 (26.03.2002) col. 1, lines 47-51, col. 3, line 61 to col. 4, line 9), col. 6, col. 29-30.	1-16 and 17, 20-39 ----- 18, 19
y	US 5,953,727 (Masyn et al.) 6 March 1997 (3.6.1997) Abstract; col. 6, lines 17-33	4, 17, 20-36

Further documents are listed in the continuation of Box C.       See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 13 May 2008 (13.05.2008)	Date of mailing of the international search report <b>04 JUN 2008</b>
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer <i>Lori A. Clow</i> /Lori A. Clow/Primary Examiner for Anna Skibinsky Telephone No. (571) 272-4373

Continuation of B. FIELDS SEARCHED Item 3:  
EAST, DIALOG  
search terms: phenotype, genetic, predict, variation, individual(s)