



European Patent
Office

**SUPPLEMENTARY
PARTIAL EUROPEAN SEARCH REPORT**

Application Number

which under Rule 45 of the European Patent Convention EP 03 79 8530 shall be considered, for the purposes of subsequent proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT											
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)								
X	WO 01/75440 A (WELFIDE CORPORATION; COCHRAN, SUSAN; PATERSON, GARY; OHASHI, YOSHITAKA) 11 October 2001 (2001-10-11) see whole doc. esp. claims and p.37, 2.par-ff -42. -----	1-20	INV. C12Q1/68 G01N33/53								
X	EP 1 132 483 A (PRESIDENT OF NIIGATA UNIVERSITY) 12 September 2001 (2001-09-12) see whole doc. esp. claims and tables -----	1-20									
X	HAKAK Y ET AL: "Genome-wide expression analysis reveals dysregulation of myelination-related genes in chronic schizophrenia" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, US, vol. 98, no. 8, 10 April 2001 (2001-04-10), pages 4746-4751, XP002957625 ISSN: 0027-8424 see whole doc. esp. Table 1 and methods ----- -/--	1-20									
<table border="1"> <tr> <td colspan="2">The supplementary search report has been based on the last set of claims valid and available at the start of the search.</td> <td colspan="2">TECHNICAL FIELDS SEARCHED (IPC)</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">C12Q</td> </tr> </table>				The supplementary search report has been based on the last set of claims valid and available at the start of the search.		TECHNICAL FIELDS SEARCHED (IPC)				C12Q	
The supplementary search report has been based on the last set of claims valid and available at the start of the search.		TECHNICAL FIELDS SEARCHED (IPC)									
		C12Q									
INCOMPLETE SEARCH											
<p>The Search Division considers that the present application, or some or all of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for the following claims:</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search: see sheet C</p>											
Place of search Munich		Date of completion of the search 18 November 2005	Examiner Mueller, F								
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document									
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document											

EPO FORM 1503 03.02 (P04C20)



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	<p>VAWTER M P ET AL: "Application of cDNA microarrays to examine gene expression differences in schizophrenia" BRAIN RESEARCH BULLETIN, ELSEVIER SCIENCE LTD, OXFORD, GB, vol. 55, no. 5, 15 July 2001 (2001-07-15), pages 641-650, XP002271622 ISSN: 0361-9230 * the whole document *</p> <p>-----</p>	1-20	
X	<p>WO 01/00882 A (THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA; EBERWINE, JAMES, H; HE) 4 January 2001 (2001-01-04) see whole doc. esp. claims and p.19, 1.20 ff.</p> <p>-----</p>	1-20	TECHNICAL FIELDS SEARCHED (IPC)
X	<p>MIMMACK M L ET AL: "Gene expression analysis in schizophrenia: reproducible up-regulation of several members of the apolipoprotein L family located in a high-susceptibility locus for schizophrenia on chromosome 22" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, US, vol. 99, no. 7, 2 April 2002 (2002-04-02), pages 4680-4685, XP002247907 ISSN: 0027-8424 * the whole document *</p> <p>-----</p> <p style="text-align: center;">-/--</p>	1-20	



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	<p>ILANI TAL ET AL: "A peripheral marker for schizophrenia: Increased levels of D3 dopamine receptor mRNA in blood lymphocytes"</p> <p>PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, US, vol. 98, no. 2, 16 January 2001 (2001-01-16), pages 625-628, XP002225754 ISSN: 0027-8424 * the whole document *</p> <p style="text-align: center;">-----</p>	1-20	
			TECHNICAL FIELDS SEARCHED (IPC)



Although claims 1,4-20 are directed to a method of treatment of the human/animal body (Article 52(4) EPC), obtaining a blood sample, the search has been carried out and based on the alleged effects of the compound/composition.



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-20 (partially)



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-20 (partially)

method, dna microarray for diagnosing and analyzing
schizophrenia with sequence A1677689

2. claims: 1-20 (partially)

indefinite number of inventions ...method, dna microarray
for diagnosing and analyzing schizophrenia with sequences
selected from nucleic acids (1)2-152, each single sequence
or each single specific combination of multiple sequences is
one single invention

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 79 8530

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-11-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0175440	A	11-10-2001	AU 4435801 A	15-10-2001
			EP 1356284 A2	29-10-2003
			JP 2003531587 T	28-10-2003
			US 2003175741 A1	18-09-2003

EP 1132483	A	12-09-2001	JP 3507884 B2	15-03-2004
			JP 2001245661 A	11-09-2001

WO 0100882	A	04-01-2001	AU 6406400 A	31-01-2001

专利名称(译)	用血液诊断整合功能障碍综合征的方法		
公开(公告)号	EP1548129A4	公开(公告)日	2006-05-17
申请号	EP2003798530	申请日	2003-09-26
[标]申请(专利权)人(译)	独立行政法人科学技术振兴机构 国立大学法人，新泻		
申请(专利权)人(译)	日本科学技术振兴机构 国立大学法人新泻大学		
当前申请(专利权)人(译)	日本科学技术振兴机构 国立大学法人新泻大学		
[标]发明人	NAWA HIROYUKI SOMEYA TOSHIYUKI MURATAKE TATSUYUKI KAWAMURA MEIKO		
发明人	NAWA, HIROYUKI SOMEYA, TOSHIYUKI MURATAKE, TATSUYUKI KAWAMURA, MEIKO		
IPC分类号	G01N33/53 C12M1/00 C12M1/34 C12N15/09 C12Q1/68 G01N33/48 G01N33/50 G01N33/56 G01N33/68 G01N37/00		
CPC分类号	C12Q1/6883 C12Q2600/158 G01N33/5091 G01N33/6896 G01N2800/302		
优先权	2003334170 2003-09-25 JP 2002284351 2002-09-27 JP		
其他公开文献	EP1548129A1		
外部链接	Espacenet		

摘要(译)

本发明的一个目的是提供一种用外周血单核细胞中的基因表达作为指标诊断精神分裂症的客观方法，本发明提供了一种诊断受试者是否患有精神分裂症的方法。根据本发明的方法是用于诊断受试者是否患有精神分裂症的方法，该方法包括以下步骤：获得含有来自所述受试者的核酸的血液中的单核细胞，测量至少一种核酸的含量，所述核酸选自由核酸组成的组（包含其片段和与核酸互补的核酸）定义基因（s）参展通过精神分裂症或核酸（包含其片段和与核酸互补的核酸）的出现改变表达，限定通过所述单核细胞中精神分裂症的进展表现出改变的表达的基因，并确定量化水平的改变所述测试受试者中的基因与所述核酸的定量水平相比具有统计学显著性，所述核酸限定了通过精神分裂症或所述核酸的出现而表现出改变的表达的基因（s）定义在健康受试者或精神分裂症患者中通过精神分裂症的进展表现出改变的表达的基因，从而诊断所述受试者是否患有精神分裂症或不。

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X	WO 01/75440 A (WELFIDE CORPORATION; COCHRAN, SUSAN; PATERSON, GARY; OHASHI, YOSHITAKA) 11 October 2001 (2001-10-11) see whole doc. esp. claims and p.37, 2.par-ff -42.	1-20	INV. C12Q1/68 G01N33/53
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The supplementary search report has been based on the last set of claims valid and available at the date of the search.			TECHNICAL FIELD SEARCHED (IPC)
INCOMPLETE SEARCH			C12Q
The Search Division considers that the present application, or some or all of its claims, despite not comply with the EPC. It asks to adjust that a meaningful search with the state of the art cannot be carried out, or can only be carried out partially, for the following reasons:			
Claims searched completely:			
Claims not searched:			
Reason for the limitation of the search: see sheet C			
Date of search	Date of completion of the search	Searcher	
Munich	18 November 2005	MueUler, F	
CATEGORY OF CITED DOCUMENTS		I: theory or principle underlying the invention	
X: particularly relevant if taken alone		A: earlier patent documents, but published on, or	
Y: particularly relevant if considered with another document		D: after the filing date	
A: technological background		L: document cited in the application	
C: non-written disclosure		I: document cited for other reasons	
P: intermediate document		M: members of the same patent family, corresponding document	