



European Patent  
Office

**SUPPLEMENTARY  
PARTIAL EUROPEAN SEARCH REPORT**

Application Number

which under Rule 45 of the European Patent Convention EP 03 72 7020 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	US 5 310 646 A (WHITLEY ET AL) 10 May 1994 (1994-05-10) * the whole document * In particular: col.1, l. 13-28; col. 2, l. 14-62; col. 5, l. 39-63; col. 6, l. 48-68; claims 1-10; figure 1. -----	1-33	INV. G01N33/48
X	LEISTNER SANDRA ET AL: "A useful routine for biochemical detection and diagnosis of mucopolysaccharidoses" GENETICS AND MOLECULAR BIOLOGY, [Online] vol. 21, no. 1, March 1998 (1998-03), XP002386981 ISSN: 1415-4757 Retrieved from the Internet: URL:www.scielo.br/scielo.php?script=sci_arttext&pid=S1415-47571998000100028> [retrieved on 2006-06-23] * the whole document * ----- -/--	1-33	
			TECHNICAL FIELDS SEARCHED (IPC)
			G01N
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
<b>INCOMPLETE SEARCH</b>			
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: Claims searched completely :  Claims searched incompletely :  Claims not searched :  Reason for the limitation of the search: see sheet C			
Place of search		Date of completion of the search	Examiner
The Hague		23 June 2006	ANGIONI, C
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 06.02 (P04C20) 3



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>YANG HYUN OK ET AL: "Preparation and structural determination of dermatan sulfate-derived oligosaccharides" GLYCOBIOLOGY, vol. 10, no. 10, October 2000 (2000-10), pages 1033-1040, XP002386984 ISSN: 0959-6658 * the whole document *</p> <p>-----</p>	1-33	
Y	<p>DASGUPTA F ET AL: "Synthesis of 7-O-(2-deoxy-2-sulfamido-alpha-d-glucopyranosyl)-4-methylcoumarin sodium salt: a fluorogenic substrate for sulfamidase" CARBOHYDRATE RESEARCH, ELSEVIER SCIENTIFIC PUBLISHING COMPANY. AMSTERDAM, NL, vol. 337, no. 11, 5 June 2002 (2002-06-05), pages 1055-1058, XP004367095 ISSN: 0008-6215 * the whole document *</p> <p>-----</p>	1-33	TECHNICAL FIELDS SEARCHED (IPC)
Y	<p>STARR C M ET AL: "Fluorophore-assisted carbohydrate electrophoresis in the separation, analysis, and sequencing of carbohydrates" JOURNAL OF CHROMATOGRAPHY A, ELSEVIER, AMSTERDAM, NL, vol. 720, no. 1, 12 January 1996 (1996-01-12), pages 295-321, XP004038366 ISSN: 0021-9673 * the whole document *</p> <p>-----</p> <p style="text-align: right;">-/--</p>	1-33	



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
Y	MEIKLE P J ET AL: "NEWBORN SCREENING FOR LYSOSOMAL STORAGE DISORDERS" SOUTHEAST ASIAN JOURNAL OF TROPICAL MEDICINE AND PUBLIC HEALTH, REGIONAL TROPICAL MEDICINE AND PUBLIC HEALTH, TH, vol. 30, no. SUPPL 2, 1999, pages 104-110, XP009065499 ISSN: 0125-1562 * the whole document * -----	1-33	
			TECHNICAL FIELDS SEARCHED (IPC)



Claim(s) not searched:

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Reason for the limitation of the search (non-patentable invention(s)):

Article 52 (4) EPC - Method for treatment of the human or animal body by therapy.



### 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:

claims 1-33 (in Part)



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:

Inventions 1-28: claims 1-33 (in part)

A method for diagnosing a pre-clinical or a clinical status of a mucopolysaccharide (MPS) disease in a target animal, by using an MPS biomarker as listed as in the method of claim 8, steps (a) to (d).

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Inventions 29-37: claims 1-33 (in part)

A method for diagnosing a pre-clinical or a clinical status of a mucopolysaccharide (MPS) disease in a target animal, by using an MPS biomarker as listed as in the method of claim 33, step (b).

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

EP 03 72 7020

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.

23-06-2006

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5310646	A	10-05-1994	NONE
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专利名称(译)	用于粘多糖和其他相关疾病的寡糖生物标志物		
公开(公告)号	<a href="#">EP1532438A4</a>	公开(公告)日	2006-12-06
申请号	EP2003727020	申请日	2003-06-13
申请(专利权)人(译)	妇女和儿童医院		
当前申请(专利权)人(译)	妇女和儿童医院		
[标]发明人	MEIKLE PETER JOHN FULLER MARIA RAMSEY STEVE LEWIS RANIERI ENZO HOPWOOD JOHN JOSEPH		
发明人	MEIKLE, PETER, JOHN FULLER, MARIA RAMSEY, STEVE, LEWIS RANIERI, ENZO HOPWOOD, JOHN, JOSEPH		
IPC分类号	G01N33/50 C12Q1/34 C12Q1/527 G01N30/26 G01N30/88 G01N33/48 G01N33/53 G01N33/66		
CPC分类号	G01N33/66 G01N2400/40		
优先权	2002PS2930 2002-06-14 AU		
其他公开文献	EP1532438A1 EP1532438B1		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

本发明涉及诊断粘多糖 (“MPS”) 和相关疾病的方法。本发明涉及鉴定和定量存在于患有MPS或相关病症的患者的生物体液或组织中的生化标志物 (“生物标志物”) 的方法。该方法的一个方面包括从取自目标动物的目标生物样品中确定目标MPS生物标记寡糖的目标量, 然后将目标量与参考MPS生物标记寡糖的参考量进行比较以用于诊断, 表征, 监测, 以及MPS和相关疾病的临床管理。本发明还描述了包含寡糖衍生化溶液的试剂盒; 酸溶液; 内部标准; 固相萃取柱; 固相萃取柱洗涤液; 寡糖洗脱液; 以及使用该试剂盒诊断MPS或相关疾病的一套说明。

DOCUMENTS CONSIDERED TO BE RELEVANT		
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The supplementary search report has been based on the last set of claims valid on the date of the search.		
<b>INCOMPLETE SEARCH</b> The Search Division considers that the present application, or some or all of its claims, does/is not comply with the EPC to such an extent that a meaningful search with the state of the art cannot be carried out, or can only be carried out partially, for the following claims: Claims searched completely: Claims not searched: Reason for the limitation of the search: see sheet C		
Place of search		Country of completion of the search
The Hague		ANGIONI, C
<b>CATEGORY OF CITED DOCUMENTS</b> X: particularly relevant if taken alone Y: particularly relevant if considered with another A: technological background Z: non-relevant document P: intermediate document I: theory or principle underlying the invention E: prior art document, not 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		