



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
P,X	WO 02/18418 A (UNIVERSITY OF VIRGINIA PATENT FOUNDATION; ALLIS, C., DAVID; STRAHL, BR) 7 March 2002 (2002-03-07) * page 15, paragraph 3 - page 17, paragraph 1 * * claims 23-25 *	1-4,6, 12,13, 16,18	C12Q1/68 G01N33/53
P,X	----- WO 03/004050 A (UNIVERSITY OF VIRGINIA PATENT FOUNDATION; ALLIS, C., DAVID; BRIGGS, SC) 16 January 2003 (2003-01-16) * page 18, paragraph 2 - page 21, paragraph 3 * * claims 25-27 *	1,2,4,6, 12,13, 16,18	
A	----- WO 99/47924 A (ROCHE DIAGNOSTICS GMBH; HOLDENRIEDER, STEFAN; BUSCH, MARTIN; BODENMUEL) 23 September 1999 (1999-09-23) * page 1, lines 6-10 * * page 3, line 35 - page 5, paragraph 1 * * page 6, paragraph 2-5 * * example 1 * * claims 1,5 *	1-10, 12-18	
			TECHNICAL FIELDS SEARCHED (IPC)
			C12Q G01N
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search Munich		Date of completion of the search 9 December 2005	Examiner Tudor, M
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			

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EPO FORM 1503 03.82 (F04C04)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	<p>PERRY CAROLYN A ET AL: "Analysis of nucleosome assembly and histone exchange using antibodies specific for acetylated H4" BIOCHEMISTRY, vol. 32, no. 49, 1993, pages 13605-13614, XP002347083 ISSN: 0006-2960 * page 13605, right-hand column, paragraph 2 * * page 13606, right-hand column, paragraph 4 - page 13607, left-hand column, paragraph 1 * * page 13608, right-hand column, paragraph 2 - page 13609, left-hand column, paragraph 1 * * page 13611, left-hand column, line 16 - right-hand column, paragraph 1 * * page 13612, right-hand column, paragraph 2 *</p>	1-10, 12-18	
E	<p>----- WO 03/014142 A (UNIVERSITY OF VIRGINIA PATENT FOUNDATION; ALLIS, C., DAVID; CHEUNG, WA) 20 February 2003 (2003-02-20) * sequence 1 * * page 3, paragraphs 3,4 * * page 8, paragraph 4 - page 9, paragraph 2 * * page 11, paragraph 3 - page 12, paragraph 2 * * example 1 * * claims 1-3,5,6,10-15 * -----</p>	11	<p>TECHNICAL FIELDS SEARCHED (IPC)</p>
<p>The supplementary search report has been based on the last set of claims valid and available at the start of the search.</p>			
Place of search		Date of completion of the search	Examiner
Munich		9 December 2005	Tudor, M
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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EPO FORM 1503 03.82 (F04C04)



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:



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: 1-10,12-18

A method of detecting active or inactive genes sequences in an individual; a method of detecting chromatin alterations associated with a disease state; a method of detecting a disease state; wherein said methods employ DNA sequences isolated from nucleosomes immunoprecipitated by antibodies directed against modified histones.

2. claim: 11

A method of isolating nucleosomes released from apoptotic cells using an antibody directed against SEQ ID NO:7.

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

EP 03 74 2781

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.

09-12-2005

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0218418 A	07-03-2002	AU 8521401 A	13-03-2002
		CA 2420277 A1	07-03-2002
		EP 1313756 A1	28-05-2003
		JP 2004520270 T	08-07-2004
WO 03004050 A	16-01-2003	CA 2452628 A1	16-01-2003
		EP 1411975 A1	28-04-2004
		JP 2005508302 T	31-03-2005
WO 9947924 A	23-09-1999	AU 2934299 A	11-10-1999
		EP 1064549 A1	03-01-2001
		JP 3517642 B2	12-04-2004
		JP 2002507722 T	12-03-2002
WO 03014142 A	20-02-2003	CA 2456010 A1	20-02-2003
		JP 2005506973 T	10-03-2005

专利名称(译)	利用组蛋白修饰标记的非侵入性诊断测试		
公开(公告)号	EP1483415A4	公开(公告)日	2006-02-01
申请号	EP2003742781	申请日	2003-02-19
[标]申请(专利权)人(译)	弗吉尼亚大学专利基金会 色品疗法有限公司		
申请(专利权)人(译)	VIRGINIA专利大学基金会 CHROMA THERAPEUTICS LIMITED		
当前申请(专利权)人(译)	VIRGINIA专利大学基金会 CHROMA THERAPEUTICS LIMITED		
[标]发明人	ALLIS C DAVID BRUNS DAVID E DRUMMOND ALAN H		
发明人	ALLIS, C., DAVID BRUNS, DAVID, E. DRUMMOND, ALAN, H.		
IPC分类号	C07K1/22 C07K16/18 C12M1/00 C12N15/09 C12P19/34 C12Q1/68 G01N33/53 G01N33/68 G01N37/00		
CPC分类号	G01N33/6842 C12Q1/6809 G01N33/5308 G01N33/68 G01N33/6875		
代理机构(译)	格兰特, 安娜·罗斯曼		
优先权	60/365459 2002-03-19 US 60/358325 2002-02-20 US		
其他公开文献	EP1483415A2		
外部链接	Espacenet		

摘要(译)

本发明涉及针对特定组蛋白氨基末端修饰的抗体作为疾病或先天性缺陷的诊断指标的用途。在一个实施方案中, 使用组蛋白特异性抗体从患者的血液或血清样品中分离核小体, 并纯化所分析的DNA并分析用于诊断和筛选目的。

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P, X	NO 02/19418 A (UNIVERSITY OF VIRGINIA PATENT FOUNDATION; ALLIS, C., DAVID; STRAHL, BR) 7 March 2002 (2002-03-07) * page 15, paragraph 3 - page 17, paragraph 1 * claims 23-25 *	1-4, 6, 12, 13, 16, 18	C12Q1/68 G01N33/53
P, X	NO 03/064650 A (UNIVERSITY OF VIRGINIA PATENT FOUNDATION; ALLIS, C., DAVID; BRIGGS, SC) 16 January 2003 (2003-01-16) * page 18, paragraph 2 - page 21, paragraph 3 * claims 25-27 *	1, 2, 4, 6, 12, 13, 16, 18	
A	NO 99/47924 A (BOEHE DIAGNOSTICS GMBH; HOLDENRIEDER, STEFAN; BUSCH, MARTIN; BODENHUEL) 23 September 1999 (1999-09-23) * page 1, lines 6-10 * * page 3, line 35 - page 5, paragraph 1 * * page 6, paragraph 2-5 * * example 1 * * claims 1, 5 *	1-10, 12-18	TECHNICAL FIELD(S) SEARCHED C12Q G01N
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