

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 2005/186168 A1 (ALBIN ERIC L [US]) 25 August 2005 (2005-08-25) * paragraph [0109] * -----	3-6	INV. G01N33/564 C07K14/42 C12N9/64		
X	ASKIN ATES ET AL: "Serum pro-matrix metalloproteinase-3 as an indicator of disease activity and severity in rheumatoid arthritis: comparison with traditional markers", RHEUMATOLOGY INTERNATIONAL ; CLINICAL AND EXPERIMENTAL INVESTIGATIONS, SPRINGER, BERLIN, DE, vol. 27, no. 8, 11 April 2007 (2007-04-11), pages 715-722, XP019515063, ISSN: 1437-160X, DOI: 10.1007/S00296-007-0338-1 * abstract; table 3 * -----	3-6	G01N33/53 G01N33/573 C07K16/40		
X	Atsushi Kuno ET AL: "Focused Differential Glycan Analysis with the Platform Antibody-assisted Lectin Profiling for Glycan-related Biomarker Verification", Molecular & Cellular Proteomics, 11 August 2008 (2008-08-11), pages 99-108, XP055186351, United States DOI: 10.1074/mcp.M800308-MCP200 Retrieved from the Internet: URL:http://www.mcponline.org/content/8/1/99.abstract [retrieved on 2018-03-21] * abstract * * figure 4 * -----	7,8,15	<table border="1"> <tr> <td>TECHNICAL FIELDS SEARCHED (IPC)</td> </tr> <tr> <td>G01N</td> </tr> </table>	TECHNICAL FIELDS SEARCHED (IPC)	G01N
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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		Date of completion of the search	Examiner		
The Hague		21 March 2018	Lunter, Pim		
CATEGORY OF CITED DOCUMENTS 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 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					

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 EPO FORM 1503 03 82 (P04C04)

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	ASHISH SAROHA ET AL: "Jacalin Bound Plasma O-Glycoproteome and Reduced Sialylation of Alpha 2-HS Glycoprotein (A2HSG) in Rheumatoid Arthritis Patients", PLOS ONE, vol. 7, no. 10, 3 October 2012 (2012-10-03), page e46374, XP055192372, DOI: 10.1371/journal.pone.0046374 * abstract *	8,15	
X	----- KOJI IMAMURA ET AL: "Engineering of the glycan-binding specificity of Agrocybe cylindracea galectin towards [alpha](2,3)-linked sialic acid by saturation mutagenesis", JOURNAL OF BIOCHEMISTRY, vol. 150, no. 5, 3 August 2011 (2011-08-03), pages 545-552, XP055461654, GB ISSN: 0021-924X, DOI: 10.1093/jb/mvr094 * abstract *	7	TECHNICAL FIELDS SEARCHED (IPC)
X	----- YOSHIYUKI HIZUKURI ET AL: "Extraction of leukemia specific glycan motifs in humans by computational glycomics", CARBOHYDRATE RESEARCH, vol. 340, no. 14, 10 August 2005 (2005-08-10), pages 2270-2278, XP055461662, GB ISSN: 0008-6215, DOI: 10.1016/j.carres.2005.07.012 * abstract *	7	
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 <b>The Hague</b>		Date of completion of the search <b>21 March 2018</b>	Examiner <b>Lunter, Pim</b>
<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 ..... &amp; : member of the same patent family, corresponding document</p>			

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

EP 15 85 4205

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.

21-03-2018

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005186168	A1	25-08-2005	NONE
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专利名称(译)	类风湿性关节炎标记物		
公开(公告)号	<a href="#">EP3214443A4</a>	公开(公告)日	2018-05-02
申请号	EP2015854205	申请日	2015-10-29
[标]申请(专利权)人(译)	学校法人庆应义塾 glycobiomarker领先的创新公司, 公司		
申请(专利权)人(译)	国立先进工业科技THE 庆应大学		
当前申请(专利权)人(译)	国立先进工业科技THE 庆应大学		
[标]发明人	KUNO ATSUSHI MATSUDA ATSUSHI NARIMATSU HISASHI TAKEUCHI TSUTOMU SUZUKI KATSUYA TAKESHITA MASARU		
发明人	KUNO, ATSUSHI MATSUDA, ATSUSHI NARIMATSU, HISASHI TAKEUCHI, TSUTOMU SUZUKI, KATSUYA TAKESHITA, MASARU		
IPC分类号	G01N33/564 C07K14/42 C12N9/64 G01N33/53 G01N33/573		
CPC分类号	G01N33/573 C07K14/42 C07K16/40 C12N9/64 C12Y304/24017 G01N33/53 G01N33/564 G01N2333/96494 G01N2800/102		
优先权	2014222096 2014-10-30 JP		
其他公开文献	EP3214443A1		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

本发明致力于提供一种方法的问题, 该方法通过简单的方法可靠且灵敏地评价类风湿性关节炎的疾病活动性, 以及用于该方法的试剂盒。本发明还提供了用于准确诊断风湿性多肌痛和复发性多软骨炎的方法, 其是类似的风湿性疾病, 用于鉴别类风湿性关节炎的方法, 以及用于其的试剂盒。本发明提供了一种结合Jacalin的O-连接的寡糖表位作为诊断类风湿性关节炎的阴性标记物, 并且通过使用通过乘法获得的值的变化量更客观地确定类风湿性关节炎的疾病活动, 能够更准确地评估疾病状况。通过血液中结合的MMP-3和Jacalin的量的倒数, 血液中MMP-3的量或血液中结合的MMP-3和ABA, ACA或ACG的量。通过发现血液中MMP-3上的LEL或STL反应性糖链是用于诊断风湿性多肌痛和复发性多软骨炎的糖链标记物, 本发明还提供了一种用于准确诊断风湿性多肌痛和复发性多软骨炎的方法。本发明还提供了一种准确诊断类风湿性关节炎的方法, 该方法能够通过测量结合在MMP-3上的LEL或STL的量与结合的Jacalin, ACG等的量的比率来区分类似的风湿性疾病。MMP-3在血液

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X	US 2005/181608 A1 (ALBIN ERIC L [US]) 25 August 2005 (2005-08-25) * PAP:EP:Pub: [01093]	3-6	G01N33/564 C07K14/42 C12N9/64 G01N33/53 G01N33/573 C07K16/40
X	ASKIN ATEZ ET AL.: "Serum pro-matrix metalloproteinase-3 as an indicator of disease activity and severity in rheumatoid arthritis: comparison with traditional markers" RHEUMATOLOGY INTERNATIONAL: CLINICAL AND EXPERIMENTAL INVESTIGATIONS; SPRINGER, BERLIN, DE. vol. 27, no. 8, 11 April 2007 (2007-04-11) * pages: 715-722. XP09510063. ISSN: 1437-160X. DOI: 10.1007/s00096-007-0338-1 * abstract: table 3	3-6	
X	Atsushi Kuno ET AL.: "Focused Differential Glycan Analysis with the Platform Antibody-Linked Lectin Profiling for Glycan-Related Biomarker Verification", Molecular & Cellular Proteomics 11 August 2008 (2008-08-11), pages 99-108, XP05106351. United States DOI: 10.1074/mcp.M800308-MCP200 Retrieved from the Internet: URL: http://www.mcponline.org/content/8/1/9 * abstract [retrieved on 2018-03-21] * abstract = * figure 4 =	7, 8, 15	

The supplementary search report has been drawn up on the basis of the data available in the state of the art.

1 The Hague 21 March 2016 Lunter, Pim

CLASSIFICATION OF CITED DOCUMENTS

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3. priority or inventible under the Japanese laws

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