





European Patent  
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SUPPLEMENTARY  
PARTIAL EUROPEAN SEARCH REPORT

Application Number  
EP 01 92 3411

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	HROMAS R ET AL: "PLAB, A NOVEL PLACENTAL BONE MORPHOGENETIC PROTEIN" BIOCHIMICA ET BIOPHYSICA ACTA, AMSTERDAM, NL, vol. 1354, 1997, pages 40-44, XP001148762 ISSN: 0006-3002 * abstract * * figure 2 *	1-17,23	
A	----- LAWTON LEE N ET AL: "Identification of a novel member of the TGF-beta superfamily highly expressed in human placenta" GENE: AN INTERNATIONAL JOURNAL ON GENES AND GENOMES, ELSEVIER SCIENCE PUBLISHERS, BARKING, GB, vol. 203, no. 1, 5 December 1997 (1997-12-05), pages 17-26, XP002206951 ISSN: 0378-1119 * abstract * * figure 5 *	1-17,23	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	----- YOKOYAMA-KOBAYASHI M ET AL: "HUMAN CDNA ENCODING A NOVEL TGF-BETA SUPERFAMILY PROTEIN HIGHLY EXPRESSED IN PLACENTA" JOURNAL OF BIOCHEMISTRY, JAPANESE BIOCHEMICAL SOCIETY, TOKYO, JP, vol. 122, no. 3, 1997, pages 622-626, XP001069638 ISSN: 0021-924X * abstract * * figure 5 *	1-17,23	
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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
P,X	MOORE A G ET AL: "THE TRANSFORMING GROWTH FACTOR-BETA SUPERFAMILY CYTOKINE MACROPHAGE INHIBITORY CYTOKINE-1 IS PRESENT IN HIGH CONCENTRATIONS IN THE SERUM OF PREGNANT WOMEN" JOURNAL OF CLINICAL ENDOCRINOLOGY AND METABOLISM, NEW YORK, NY, US, vol. 85, no. 12, 2000, pages 4781-4788, XP001148764 ISSN: 0021-972X * abstract * * page 4787, column 1, paragraph 3 - column 2, paragraph 1 * -----	1-17,23	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)



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: 1-17 and 23 (partially)

A method of diagnosis of miscarriage risk and/or premature birth or foetal abnormalities comprising measuring the amount of MIC-1 present in a body sample from a test subject and comparing said measured amount of MIC-1 against an amount measured in a normal pregnant subject at equivalent gestation age as said test subject. The use of MIC-1 for the treatment of a pregnant subject for reducing the risk of miscarriage and/or premature birth by administration of MIC-1 or by gene therapy.

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2. claims: 18-20 and 23 (partially)

A method of diagnosis or assessment of cancer characterized by an abnormal expression level of MIC-1 comprising measuring the amount of MIC-1 in the test sample and compare said amount with that of a normal subject.

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3. claims: 21-22 and 23 (partially)

A method of diagnosis of rheumatoid arthritis comprising measuring the amount of MIC-1 in the test sample and compare said amount with that of a normal subject.

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4. claim: 24

The use of MIC-1 for the treatment of inflammation by the administration of MIC-1.

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5. claims: 25-32

A method of diagnosis or assessing a predisposition to or assessment of inflammatory disease and/or cancer comprising measuring the presence of a MIC-1 variant protein having either an aspartic acid or histidine at position 202 or a position corresponding to position 202 of immature human wild type MIC-1.

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6. claims: 33-34



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:

A method of genotyping a human subject in relation to MIC-1 comprising determining whether said subject is homozygous or heterozygous for a MIC-1 protein having either an aspartic acid or histidine at position 202 or a position corresponding to position 202 of immature human wild type MIC-1. The use of said method of genotyping for the diagnosis or assessment of inflammatory disease and/or cancer.

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**INCOMPLETE SEARCH  
SHEET C**

Application Number  
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Although claims 13-16 are directed to a method of treatment of the human/animal body (Article 52(4) EPC), the search has been carried out and based on the alleged effects of the compound/composition.

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专利名称(译)	涉及巨噬细胞抑制性细胞因子-1 ( MIC-1 ) 的诊断测定和治疗方法		
公开(公告)号	<a href="#">EP1279039A4</a>	公开(公告)日	2005-05-25
申请号	EP2001923411	申请日	2001-04-20
申请(专利权)人(译)	圣文森特医院SYDNEY LIMITED		
当前申请(专利权)人(译)	圣文森特医院SYDNEY LIMITED		
[标]发明人	BREIT SAMUEL NORBERT BROWN DAVID ALEXANDER		
发明人	BREIT, SAMUEL, NORBERT BROWN, DAVID ALEXANDER		
IPC分类号	G01N33/53 G01N33/68 A61K38/00 A61K38/19 A61K48/00 A61P15/06 A61P29/00 A61P35/00 A61P43/00 C07K16/24 C12N15/09 C12N15/19 C12Q1/68 G01N33/574		
CPC分类号	A61K38/195 A61P15/06 A61P29/00 C07K16/24 C07K2317/34 C12Q1/6883 C12Q1/6886 C12Q2600/156 C12Q2600/158 G01N33/6893 G01N2800/102		
代理机构(译)	HARDING , CHARLES THOMAS		
优先权	2000PQ7037 2000-04-20 AU 2000PQ7465 2000-05-11 AU		
其他公开文献	EP1279039B1 EP1279039A1		
外部链接	<a href="#">Espacenet</a>		

## 摘要(译)

公开了用于诊断流产和/或早产，胎儿异常，癌症（例如前列腺癌）和炎性疾病（例如类风湿性关节炎）的风险的方法，其涉及确定体内巨噬细胞抑制性细胞因子-1（MIC-1）的异常水平。样品或，否则，确定MIC-1变体蛋白的存在。还公开了降低妊娠受试者中流产和/或早产风险的方法，以及治疗炎性疾病和/或癌症的方法。

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	WO 99/06445 A (HUYNH THANH V ; HSIAO EDWARD (US); LEE SE JIN (US); SEBALD SUZANNE (US)) 11 February 1999 (1999-02-11) * page 5, line 24 - page 6, line 2 * * page 16, line 6 - line 20 * * page 18, line 22 - page 19, line 2 * * Claims 16-41 *	1-17,23	G01N33/68 G01N33/574 C07K16/24 C12N15/19 C12Q1/68 A61K48/00 A61K38/19 A61P15/06 A61P29/00 A61P35/00
A	FAIRLIE W D ET AL: "MIC-1 IS A NOVEL TGF-BETA SUPERFAMILY CYTOKINE ASSOCIATED WITH MACROPHAGE ACTIVATION" JOURNAL OF LEUCOCYTE BIOLOGY, FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL, US, vol. 65, no. 1, January 1999 (1999-01), pages 2-5, XP000937688 ISSN: 0741-5400 * abstract * * Figure 2 * * page 5, column 1, paragraph 4 - column 2, paragraph 1 * ----- -/-	1-17,23	TECHNICAL FIELDS SEARCHED (Int.Cl.7) G01N A61K A61P
LACK OF UNITY OF INVENTION The Search Director 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 8			
The present partial 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.			
Place of search The Hague		Date of completion of the search 17 December 2004	Examiner van der Kooij, M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone V : particularly relevant if considered with another document of the same category A : non-written disclosure D : non-written disclosure I : intermediate document		1 : priority or principle underlying the invention E : earlier patent document, but published on, or after the filing date P : documents cited in the application L : documents cited for other reasons * : number of the same patent family, corresponding document	