



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: 1-16, 19-26, 29 (complete)

Methods for enriching, depleting or distinguishing dendritic cells from a mixture of cells using an antigen-binding fragment specific for CD141, dendritic cells thus obtained and their use for generating an immune response.

2. claims: 17-18, 27-28 (complete)

Methods of modulating cytokine production of dendritic cells.

Methods of monitoring said production and assaying the effect of an agent on said production.

3. claims: 30, 31 (complete)

A method of inhibiting interaction of dendritic cells and CD141-binding ligands, or dendritic cells and T cells, and the use of agents related thereto.



European Patent
Office

**SUPPLEMENTARY
PARTIAL EUROPEAN SEARCH REPORT**

Application Number

which under Rule 45 of the European Patent Convention EP 02 73 1853 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 (Int.Cl.7)
X	DZIOANEK A ET AL: "BDCA-2, BDCA-3, AND BDCA-4: THREE MARKERS FOR DISTINCT SUBSETS OF DENDRITIC CELLS IN HUMAN PERIPHERAL BLOOD" IMMUNOLOGY, OXFORD, GB, vol. 165, no. 11, 1 December 2000 (2000-12-01), pages 6037-6046, XP000986292 ISSN: 0019-2805 * abstract; p.6038, results 1st paragraph; p.6045 right column 3rd paragraph; figures 2,8; table II;	1-30	G01N33/567
P, X	WO 01/36487 A (MILTENYI BIOTECH GMBH ; DZIOANEK ANDRZEJ (DE); SCHMITZ JUERGEN (DE); BU) 25 May 2001 (2001-05-25) claims 1,6,7,10,11, Figures 2,9,11; p.10 lines 11-21, p.39 lines 8-9, claims 93, 94, 110; claims 148-152*	1-30	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G01N
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
INCOMPLETE SEARCH			
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	
Munich	10 August 2005	Krueger, J	
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 (P04C20)



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.CI.7)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	<p>HEALY AILEEN M ET AL: "VEGF is deposited in the subepithelial matrix at the leading edge of branching airways and stimulates neovascularization in the murine embryonic lung" DEVELOPMENTAL DYNAMICS, vol. 219, no. 3, November 2000 (2000-11), pages 341-352, XP009042132 ISSN: 1058-8388 * abstract *</p>	1-16, 19-26,29	
A	<p>WILLIAMSON E ET AL: "Modulating dendritic cells to optimize mucosal immunization protocols." JOURNAL OF IMMUNOLOGY (BALTIMORE, MD. : 1950) 1 OCT 1999, vol. 163, no. 7, 1 October 1999 (1999-10-01), pages 3668-3675, XP002340028 ISSN: 0022-1767 * figure 10 *</p>	1-30	TECHNICAL FIELDS SEARCHED (Int.CI.7)
A	<p>FLORES-ROMO L: "In vivo maturation and migration of dendritic cells." IMMUNOLOGY. MAR 2001, vol. 102, no. 3, March 2001 (2001-03), pages 255-262, XP002340041 ISSN: 0019-2805 * the whole document *</p>	1-30	



Claim(s) not searched:

31

Reason for the limitation of the search:

Present claim 31 relates to a use of an agent defined by reference to a desirable characteristic or property, namely "that inhibits the interaction of CD141 and a T cell or reduces the expression of CD141"

The claims cover all all uses of agents having this characteristic or property, whereas the application provides no support within the meaning of Article 84 EPC and/or disclosure within the meaning of Article 83 EPC for such agents. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 84 EPC). An attempt is made to define the agents by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to claims 1-30.

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

EP 02 73 1853

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.

10-08-2005

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
WO 0136487	A	25-05-2001	AU 1723301 A	30-05-2001
			CA 2396428 A1	25-05-2001
			CN 1454215 A	05-11-2003
			EP 1301539 A2	16-04-2003
			WO 0136487 A2	25-05-2001
			JP 2004512006 T	22-04-2004
WO 0151617	A	19-07-2001	AU 3279301 A	24-07-2001
			CA 2394831 A1	19-07-2001
			EP 1259592 A1	27-11-2002
			WO 0151617 A1	19-07-2001
			US 2001026937 A1	04-10-2001
			US 2005123522 A1	09-06-2005
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			AU 679949 B2	17-07-1997
			AU 5538594 A	09-05-1994
			CA 2146974 A1	28-04-1994
			DE 69332884 D1	22-05-2003
			DE 69332884 T2	20-11-2003
			EP 1324040 A2	02-07-2003
			EP 0667896 A1	23-08-1995
			ES 2191677 T3	16-09-2003
			JP 8504574 T	21-05-1996
			WO 9409117 A1	28-04-1994

专利名称(译)	用于树突细胞亚群的抗原结合片段及其用途		
公开(公告)号	EP1395826A4	公开(公告)日	2005-11-09
申请号	EP2002731853	申请日	2002-05-17
[标]申请(专利权)人(译)	美天旎生物技术有限公司		
申请(专利权)人(译)	美天旎生物技术有限公司		
当前申请(专利权)人(译)	美天旎生物技术有限公司		
[标]发明人	SCHMITZ JUERGEN DZIONEK ANDRZEJ BUCK DAVID WILLIAM		
发明人	SCHMITZ, JUERGEN DZIONEK, ANDRZEJ BUCK, DAVID WILLIAM		
IPC分类号	C12N5/0784 G01N33/50 G01N33/537 G01N33/569 G01N33/68 G01N33/567		
CPC分类号	G01N33/5047 A61K2039/5154 C12N5/0639 G01N33/5008 G01N33/5011 G01N33/502 G01N33/505 G01N33/5094 G01N33/537 G01N33/56966 G01N33/6863		
优先权	60/291561 2001-05-17 US		
其他公开文献	EP1395826A1		
外部链接	Espacenet		

摘要(译)

本发明提供了分离，富集和分析含有树突细胞及其亚群的造血细胞群的方法。提供了含有树突细胞的组合物和这些组合物的使用方法。

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to class	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	DZIONEK A ET AL: "BDCA-2, BDCA-3, AND BDCA-4: THREE MARKERS FOR DISTINCT SUBSETS OF DENDRITIC CELLS IN HUMAN PERIPHERAL BLOOD" IMMUNOLOGY, OXFORD, GB, vol. 165, no. 11, 1 December 2002 (2000-12-01), pages 6037-6046, XP00986292 ISSN: 0019-2805 * abstract, p.6038, results 1st paragraph; p.6045 right column 3rd paragraph; figures 2,8; table II;	1-30	G01N33/567
P.X	WO 01/36487 A (MILTENYI BIOTECH GMBH; DZIONEK ANDRZEJ) (DE); SCHMITZ, JUERGEN (DE); BU 25 May 2001 (2001-05-25) Claims 1-6, 7, 10-11, Figures 2, 9, 11; p.10, lines 11-21, p.39 lines 8-9, claims 93, 94, 110; claims 148-152*	1-30	
<p>The supplementary search report has been based on the last set of claims valid and available.</p> <p>INCOMPLETE SEARCH</p> <p>The claims were not searched because they were not published, or some of all of its claims, abstracts and claims with the CPC in which no related prior art was found, or the date of the art cannot be searched, or can only be searched not partially, for the following reason:</p> <p>Claims searched completely:</p> <p>Claims not searched:</p> <p>Reason for the limitation of the search:</p> <p>see sheet C</p>			
<p>6</p> <p>Place of search: Munich</p> <p>Date of completion of the search: 10 August 2005</p> <p>Examiner: Krueger, J</p>			
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X particularly relevant if taken alone Y particularly relevant if considered with another document of the same category A technological background document P intermediate document</p> <p>I: library or archive underlying the search E: early or single document, not published on, or obsolete (ECLA) O: document of the applicant L: document cited for other reasons R: member of the same patent family, corresponding document</p>			