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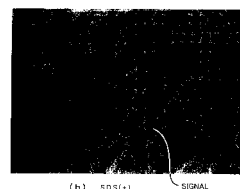
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(54) **Method of evaluating the function of phagocyte and utilization thereof**

(57) A digested phagocyte prepared by contacting *in vitro* a phagocyte with a foreign microorganism and isolating the phagocyte so contacted; a process for producing the same; and a process and a kit in which these are utilized are disclosed. An experimental model, which enables *in vitro* evaluation of a phagocytotic function of phagocytes, is provided.

FIGURE 1



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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 5 582 985 A (THOMPSON ET AL) 10 December 1996 (1996-12-10) * the whole document * * examples 4,2 * -----	1-41	INV. C12N15/09 C12N5/06 C12N5/10 C12Q1/68
X	ARNOLDI J ET AL: "Species-specific assessment of Mycobacterium leprae in skin biopsies by in situ hybridization and polymerase chain reaction" LABORATORY INVESTIGATION, UNITED STATES AND CANADIAN ACADEMY OF PATHOLOGY, BALTIMORE,, US, vol. 66, no. 5, May 1992 (1992-05), pages 618-623, XP002109095 ISSN: 0023-6837 * the whole document * * page 622 * -----	1-41	G01N33/53 G01N33/50
X	KEDZIERSKA KATHERINE ET AL: "Granulocyte-macrophage colony-stimulating factor augments phagocytosis of Mycobacterium avium complex by human immunodeficiency virus type 1-infected monocytes/macrophages in vitro and in vivo" JOURNAL OF INFECTIOUS DISEASES, vol. 181, no. 1, January 2000 (2000-01), pages 390-394, XP002323636 ISSN: 0022-1899 * the whole document * * page 391, column 1, paragraph 5 - page 391, column 2, paragraph 2 * ----- -/--	32-41	TECHNICAL FIELDS SEARCHED (IPC) G01N C12N C12Q
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 21 February 2008	Examiner Jenkins, Gareth
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 03.02 (P04C01)



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	HEINE J ET AL: "Anaesthesia with propofol decreases FMLP-induced neutrophil respiratory burst but not phagocytosis compared with isoflurane" BRITISH JOURNAL OF ANAESTHESIA, vol. 85, no. 3, September 2000 (2000-09), pages 424-430, XP002323637 ISSN: 0007-0912 * the whole document * * page 426, column 1, paragraph 2 * -----	32-41	TECHNICAL FIELDS SEARCHED (IPC)
X	CHEN SHIH-CHU ET AL: "Electron microscope studies of the in vitro phagocytosis of Mycobacterium spp. by rainbow trout Oncorhynchus mykiss head kidney macrophages" DISEASES OF AQUATIC ORGANISMS, vol. 32, no. 2, 5 March 1998 (1998-03-05), pages 99-110, XP008045324 ISSN: 0177-5103 * the whole document * * page 100, column 2 - page 101, column 1 * * figure 1 *	32-41	
X	KOLB-MAEURER A ET AL: "Listeria monocytogenes-infected human dendritic cells: Uptake and host cell response" INFECTION AND IMMUNITY, AMERICAN SOCIETY FOR MICROBIOLOGY. WASHINGTON, US, vol. 68, no. 6, June 2000 (2000-06), pages 3680-3688, XP002306819 ISSN: 0019-9567 * the whole document * * figure 1 * ----- -/--	32-41	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 21 February 2008	Examiner Jenkins, Gareth
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 (P/4/C01)



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	EP 0 435 226 B1 (ORPEGEN MED MOLEKULARBIOFORSCH [DE]) 24 May 1995 (1995-05-24) * the whole document * * examples 1,2 * -----	32-41	
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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		21 February 2008	Jenkins, Gareth
<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 (F04C01)

**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 present supplementary 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 (Rule 164 (1) EPC).



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:

Invention 1: claims 1-17 [full], 29-31 [partial]

Method of independent claim 1.

Inventions 2-4: claims 18-28,32-41 [full], 29-31 [partial]

Methods and product of independent claims 18,32,37,
respectively.

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

EP 07 00 4649

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.

21-02-2008

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专利名称(译)	评估吞噬细胞功能的方法及其利用		
公开(公告)号	EP1818402A3	公开(公告)日	2008-04-02
申请号	EP2007004649	申请日	2002-05-27
申请(专利权)人(译)	扶桑制药工业有限公司.		
当前申请(专利权)人(译)	扶桑制药工业有限公司.		
[标]发明人	MATSUHISA AKIO KESHI HIROYUKI ABE KANAKO SUGIMOTO NORIHIKO UEYAMA HIROSHI EDA SOJI UEHARA HIROTSUGU IWAMI TAKAHISA YAMAMOTO SEIJI ARAKI HIROMASA OHNO TSUNEYA		
发明人	MATSUHISA, AKIO KESHI, HIROYUKI ABE, KANAKO SUGIMOTO, NORIHIKO UEYAMA, HIROSHI EDA, SOJI UEHARA, HIROTSUGU IWAMI, TAKAHISA YAMAMOTO, SEIJI ARAKI, HIROMASA OHNO, TSUNEYA		
IPC分类号	C12N15/09 C12N5/06 C12N5/10 C12Q1/68 G01N33/53 G01N33/50		
CPC分类号	G01N33/5047 C12Q1/6841 C12Q1/689 G01N33/5005		
代理机构(译)	韦伯, PHILIP MICHAEL		
优先权	2001165954 2001-05-31 JP		
其他公开文献	EP1818402A2		
外部链接	Espacenet		

摘要(译)

通过体外接触吞噬细胞与外来微生物并分离接触的吞噬细胞制备消化的吞噬细胞;生产它的过程;以及公开了使用它们的方法和试剂盒。提供了一种实验模型,其能够体外评估吞噬细胞的吞噬功能。

FIGURE 1

