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(71) Applicant: **Telethon Institute for Child Health Research**
Subiaco, Western Australia 6008 (AU)

(72) Inventors:
• **Holt, Patrick**
Nedlands
Western Australia 6009 (AU)

- **Sly, Peter**
East Perth
Western Australia 6004 (AU)
- **Bosco, Anthony**
Coogee
Western Australia 6166 (AU)
- **Devitt, Catherine**
Claremont
Western Australia 6010 (AU)
- **McKenna, Katherine**
Carine
Western Australia 6020 (AU)

(74) Representative: **Harrison Goddard Foote**
Belgrave Hall
Belgrave Street
Leeds
LS2 8DD (GB)

(54) **Agents for treatment or prevention of an allergic disorder**

(57) The present invention relates to agents capable of treating and preventing an allergic disorder in an animal and a method of screening for these agents. In par-

ticular the invention relates to the NDFIP2 gene, its expression and agents that can modify its expression.

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EUROPEAN SEARCH REPORT

Application Number
EP 09 15 5512

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	SHEARWIN-WHYATT LINDA M ET AL: "N4WBP5A (Ndfip2), a Nedd4-interacting protein, localizes to multivesicular bodies and the Golgi, and has a potential role in protein trafficking." JOURNAL OF CELL SCIENCE 15 JUL 2004, vol. 117, no. Pt 16, 15 July 2004 (2004-07-15), pages 3679-3689, XP002534524 ISSN: 0021-9533 * the whole document *	1-12	INV. C12Q1/68 G01N33/53
X	HOWARD T D ET AL: "Mapping susceptibility genes for asthma and allergy." THE JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY FEB 2000, vol. 105, no. 2 Pt 2, February 2000 (2000-02), pages S477-S481, XP002479593 ISSN: 0091-6749 * the whole document *	1-12	
X	LUND RIIKKA ET AL: "Identification of novel genes regulated by IL-12, IL-4, or TGF-beta during the early polarization of CD4+ lymphocytes." JOURNAL OF IMMUNOLOGY (BALTIMORE, MD. : 1950) 15 NOV 2003, vol. 171, no. 10, 15 November 2003 (2003-11-15), pages 5328-5336, XP002534561 ISSN: 0022-1767 * the whole document *	1-12	C12Q
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 21 July 2009	Examiner Novak-Giese, Sabine
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 (P04C01)



EUROPEAN SEARCH REPORT

Application Number
EP 09 15 5512

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	CHIN K C ET AL: "Cresswell P. Viperin (cig5), an IFN-inducible antiviral protein directly induced by human cytomegalovirus" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, vol. 98, no. 26, 18 December 2001 (2001-12-18), pages 15125-15130, XP008090829 ISSN: 0027-8424 * the whole document *	1-12	
Y	WO 02/31185 A (TVW TELETHON INST CHILD HEALTH [AU]; HOLT PATRICK [AU]; MACAUBAS CLAUD) 18 April 2002 (2002-04-18) * abstract; claims 1-25 *	1-12	
P,X	WO 2004/083366 A (LUND RIIKKA [FI]; CHEN ZHI [FI]; LAHESMAA RIITTA [FI]) 30 September 2004 (2004-09-30) * abstract; claims 1-28; table 2 *	1-12	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 21 July 2009	Examiner Novak-Giese, Sabine
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 (P04C01)



Application Number

EP 09 15 5512

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due 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 those claims for which no payment was due.

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:

see annex

☐ 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).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

EP 09 15 5512

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: 1-12 (partially)

Invention 1:

A method of screening for an agent capable of treating or preventing an allergic disorder in a mammal, comprising determining the level of activation of genes, comprising at least one gene sequence encoding NDFIP2 (N4WBP5A).

2. claims: 1-12 (partially)

Inventions 2-20:

A method of screening for an agent capable of treating or preventing an allergic disorder in a mammal, comprising determining the level of activation of a panel of genes, comprising NDFIP2 (N4WBP5A) and at least one gene sequence encoding CIG5, IFIT4, LAMP3, DACT1, IL17RB, KRT1, LNPEP, MAL, NCOA3, OAZ, PECAM1, PLXDC1, RASGRP3, SLC39A8, XBP1, RAB27B, GNG8, GJB2 or CISH, respectively.

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

EP 09 15 5512

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.

21-07-2009

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0231185 A	18-04-2002	AT 413468 T EP 1332225 A2 US 2004063149 A1	15-11-2008 06-08-2003 01-04-2004
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WO 2004083366 A	30-09-2004	NONE	
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专利名称(译)	用于治疗或预防过敏性疾病的药剂		
公开(公告)号	EP2093297A3	公开(公告)日	2009-11-18
申请号	EP2009155512	申请日	2005-08-31
[标]申请(专利权)人(译)	募捐活动INST儿童健康RES		
申请(专利权)人(译)	募捐活动儿童卫生研究所的研究		
当前申请(专利权)人(译)	募捐活动儿童卫生研究所的研究		
[标]发明人	HOLT PATRICK SLY PETER BOSCO ANTHONY DEVITT CATHERINE MCKENNA KATHERINE		
发明人	HOLT, PATRICK SLY, PETER BOSCO, ANTHONY DEVITT, CATHERINE MCKENNA, KATHERINE		
IPC分类号	C12Q1/68 G01N33/53		
CPC分类号	A61P37/08 C12Q1/6883 C12Q2600/106 C12Q2600/136 C12Q2600/158 G01N33/5023 G01N2500/00 G01N2800/24		
代理机构(译)	HARRISON GODDARD FOOTE		
优先权	2004905098 2004-09-07 AU 60/607270 2004-09-07 US		
其他公开文献	EP2093297A2		
外部链接	Espacenet		

摘要(译)

本发明涉及能够治疗和预防动物过敏性疾病的药剂和筛选这些药剂的方法。特别地，本发明涉及NDFIP2基因，其表达和可以改变其表达的试剂。

 European Patent Office 1 rue de la Loi 1049 Luxembourg		EUROPEAN SEARCH REPORT		Application Number EP 09 15 5512
DOCUMENTS CONSIDERED TO BE RELEVANT				
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X	SHEARWIN-WHYATT LINDA M ET AL: "NAVBP5A (NDFIP2), a Nedd4-interacting protein, localizes to multivesicular bodies and the Golgi, and has a potential role in protein trafficking." JOURNAL OF CELL SCIENCE 15 JUL 2004, vol. 117, no. pt 16, 15 July 2004, (2004-07-15), pages 3679-3689, XP002534524 ISSN: 0021-9533 * the whole document *	1-12	INV. C12Q1/68 G01N33/53	
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- / - -			TECHNICAL FIELD SEARCHED (IPC)	
7 - The present search report has been drawn up for all claims				
Name of applicant Munich		Date of completion of the search 21 July 2009		Examiner Novak-Giese, Sabine
CATEGORY OF CITED DOCUMENTS particularly relevant if taken alone particularly relevant if combined with another document document of the same category non-relevant document intermediate document		1. priority or principle underlying the invention 2. prior art documents, but published on, or after, the filing date 3. document cited in the application 4. document cited for other reasons 5. document of the same patent family, corresponding document		