

# PESQUISA E INFORMAÇÃO TECNOLÓGICA

Tiago Leitão

Examinador de Patentes



INPI | 10.ABR. 2014



## AGENDA

1. Importância da informação sobre patentes
2. Sistemas de classificação
3. Pesquisa ao estado da técnica
4. Bases de dados e informação tecnológica



### O que se procura conhecer ? E porquê?

- **Invenções** em diferentes países e domínios da tecnologia
- Informação sobre **inventores** e **requerentes**
- **Evitar custos** em I & D para invenções que já existem
- Melhoramentos de patentes existentes → **Novas Invenções**
- Licenciamento
- Monitorizar os concorrentes
- Vigiar infrações às próprias Patentes
- Novas **oportunidades de negócio...**



- **Consulta de bases de dados, internet, livros, revistas, etc.**

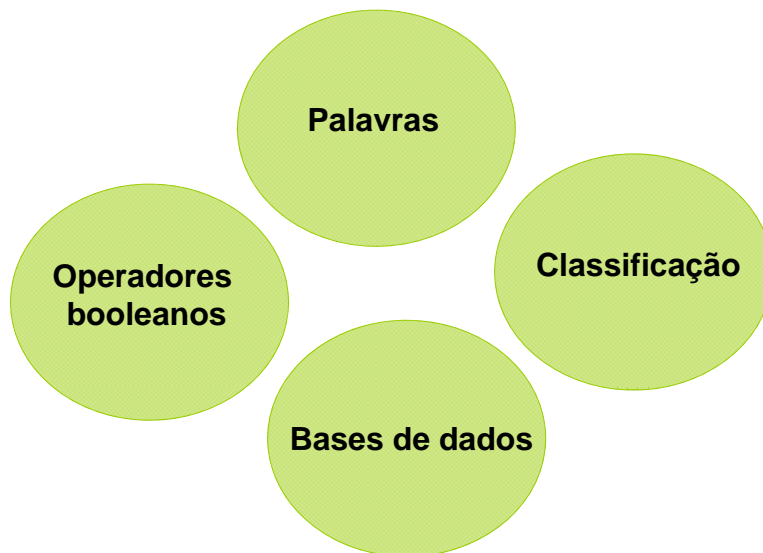
- **Informação pesquisável:**

- Estado da técnica
- Informação sobre a invenção
- País de origem, data, termos específicos caracterizadores
- Nome da empresa originária ou concorrentes
- Nome dos inventores
- Números de patentes relacionadas



- **Seleção e análise de documentos considerados relevantes**





### Palavras

Em propriedade Industrial , a proteção é definida por palavras.



- Palavras chave adequadas
- Quais são as características técnicas específicas?
- Possíveis sinónimos
- “Advogadês”

Os requerentes/inventores não utilizam uma linguagem comum.

A língua mais utilizada em pesquisas de patente é o inglês (90% dos pedidos têm o resumo em inglês).

## A IMPORTÂNCIA DAS PALAVRAS

### Exemplos:

Hole = { aperture;  
opening  
orifice  
perforation  
...

Container = { holder  
receptacle  
vessel  
...

Pen = writing instrument

Ball bearing = a plurality of balls

Toy ball = ...spherical object with floppy filaments to promote sure capture

LED (light-emitting diode) = ...photo-transmitting device

## BASES DE DADOS

### Internet:

- Espacenet (EPO)
- European Patent Register (EPO)
- USPTO PatFT (EUA)
- Google patents
- PATENTSCOPE (WIPO)
- INVENES (OEPM)
- INPI
- Bases de dados NPL (*non-Patent Literature*)



**INPI:**

- EPODOC
- WPI
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- Bases de dados NPL



**ESPACENET**

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técnicas de inúmeras  
áreas científicas

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quanto ao estado  
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## LIMITAÇÕES DO ESPACENET

- 10 termos de pesquisa por campo;
- Apresentação de apenas 500 resultados;
- Alguns documentos (CN, JP, KR, etc.) só têm o resumo traduzido;
- Alguns dados jurídicos podem não estar atualizados;
- Não permite imprimir documentos demasiado extensos (mais de 500 páginas);
- Os apóstrofes, hífen e palavras como FOR, WITH, THE, BUT, AND, OF, ANY, etc. não são pesquisáveis.

## SMARTSEARCH

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## CAMPOS PESQUISÁVEIS NO SMARTSEARCH

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Field identifier	Description	Examples
in	inventor	in=smith
pa	applicant	pa=siemens
ti	title	ti="mouse trap"
ab	abstract	ab="mouse trap"
pr	priority number	pr=ep20050104792
pn	publication number	pn=ep1000000
ap	application number	ap=jp19890234567
pd	publication date	pd=20080107 OR pd="07/01/2008" OR pd=07/01/2008
ct	citation/ cited document	ct=ep1000000
ec	europaean classification	ec="A61K31/13"
ci	ipc core and invention information	ci=A63B49/02

## CAMPOS PESQUISÁVEIS NO SMARTSEARCH

cn	ipc core and additional information	cn=A63B49/02
ai	ipc advanced and invention information	ai= A63B49/08
an	ipc advanced and additional information	an=A63B49/08
ia	inventor and applicant	ia=Apple OR ia="Ries klaus"
ta	title and abstract	ta="laser printer"
txt	title, abstract, inventor and applicant	txt=microscope lens
num	application, publication and priority number	num=ep1000000
c	ci and cn	c=A63B49/02
a	ai and an	a=A63B49/08
ipc	all current and former versions of the IPC	ipc=A63B49/08
cl	ipc and ec	cl=C10J3

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Publication date:

Enter name of one or more persons/organisations

Applicant(s):

Inventor(s):

Enter one or more classification symbols

CPC:

IPC:

Campos pesquisáveis



## CÓDIGOS DE PAÍS

PT – Portugal  
 EP – Patente Europeia  
 WO – PCT  
 US – EUA  
 GB – Reino Unido  
 FR – França  
 DE – Alemanha  
 CN – China  
 KR – Coreia do Sul  
 JP – Japão

Publication number: **i**

WO2008014520

Application number: **i**

DE19971031696

Priority number: **i**

WO1995US15925

## PESQUISA POR CLASSIFICAÇÃO



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Selected classifications

nothing selected

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### Cooperative Patent Classification

Search for a keyword or a classification symbol

View section **Index** A | B | C | D | E | F | G | H | Y

Symbol	Classification and description
<input type="checkbox"/> A	HUMAN NECESSITIES
<input type="checkbox"/> B	PERFORMING OPERATIONS; TRANSPORTING
<input type="checkbox"/> C	CHEMISTRY; METALLURGY
<input type="checkbox"/> D	TEXTILES; PAPER
<input type="checkbox"/> E	FIXED CONSTRUCTIONS
<input type="checkbox"/> F	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING ENGINES OR PUMPS
<input type="checkbox"/> G	PHYSICS
<input type="checkbox"/> H	ELECTRICITY
<input type="checkbox"/> Y	GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRAC-S] AND DIGESTS


PESQUISA





### 2. Search terms

Enter keywords in English - ctrl-enter expands the field you are in

Keywords in title: <b>i</b>	<input type="text" value="cancer vaccine"/>
Keywords in title or abstract: <b>i</b>	<input type="text"/>
Publication number: <b>i</b>	<input type="text"/>
Application number: <b>i</b>	<input type="text" value="ep"/>
Priority number: <b>i</b>	<input type="text"/>
Publication date: <b>i</b>	<input type="text" value="2010 2011 2012"/>



RESULTADOS



### total de resultados obtidos

#### Result list

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13 results found in the Worldwide database for:  
 cancer vaccine in the title AND ep as the application number AND 2010 2011 2012 as the publication date

Sort by:    Sort order:

← função SORT

	Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:
<input type="checkbox"/>	1. <b>CANCER VACCINE</b>					
★	BIRNIE RICHARD [GB]	PROCURE THERAPEUTICS LTD [GB]	A61K39/00D6	A61K39/10	EP2445524 (A1) 2012-05-02	2009-06-23
<input type="checkbox"/>	2. <b>VACCINE FOR CERVICAL CANCER</b>					
★	KIM HONG-JIN [KR] LEE NA GYONG [KR] (+4)	EYEGENE INC [KR]	A61K39/12	A61K39/00	EP2444103 (A1) 2012-04-25	2009-06-19
<input type="checkbox"/>	3. <b>Universal tumor cell vaccine for anti cancer therapeutic and prophylactic utilization</b>					
★	FAKHRAI HABIB [US] SHAWLER DANIEL L [US]	NOVARX [US]	A61K39/00D6	A61K39/00 A61P35/00	EP2404614 (A1) 2012-01-11	2006-12-20






## DADOS BIBLIOGRÁFICOS

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**Bibliographic data: EP2445524 (A1) — 2012-05-02**

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EP Register →
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**CANCER VACCINE**

**Page bookmark:** [EP2445524 \(A1\) - CANCER VACCINE](#)

**Inventor(s):** BIRNIE RICHARD [GB] ±

**Applicant(s):** PROCURE THERAPEUTICS LTD [GB] ±

**Classification:**  
 - international: [A61K39/10](#)  
 - European: [A61K39/00D6](#)

**Application number:** [EP20100734795](#) 20100622

**Priority number(s):** [WO2010GB01225](#) 20100622; [GB20090010751](#) 20090623

**Also published as:** [WO2010149963 \(A1\)](#) [US2012100102 \(A1\)](#)

**Abstract not available for EP2445524 (A1)**  
**Abstract of corresponding document: WO2010149963 (A1)**

Translate this text into   
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We disclose a vaccine comprising a pappalysin and vaccine compositions comprising a pappalysin. ← Resumo






## DESCRIÇÃO

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EP2445524 (A1)

- Description
- Claims
- Mosaics
- Original document
- Cited documents
- Citing documents
- INPADOC legal status
- INPADOC patent family

Quick help

- What happens if I click on "In my patents list"?
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- Why is the description sometimes in French or German or another language altogether?
- How can I search in the text of

**Description: EP2445524 (A1) — 2012-05-02**

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**CANCER VACCINE**

**Description not available for EP2445524 (A1)**  
**Description of corresponding document: WO2010149963 (A1)**

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The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities than the EPO; in particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.

**Cancer Vaccine**  
 The invention relates to a vaccine comprising a pappalysin and vaccine compositions comprising a pappalysin. Pappalysin is a secreted pregnancy associated metalloproteinase of molecular weight 181 kilodaltons which naturally exists as a disulphide linked homodimer which is expressed continually during pregnancy and is found in a complex with an inhibitor protein called eosinophil major basic protein in a 2:2 proteinase inhibitor complex. A second form of the enzyme exists as pappalysin 2 [PappA2] which has a molecular weight of 190.5 kilodaltons, functions as a monomer and is preferentially expressed in the placenta and non pregnant mammary gland with low expression in the kidney, fetal brain and pancreas. The substrates for pappalysin are insulin like growth factor binding proteins [IGFBP] of which there are 6 different proteins. IGFBP 4 and 5 are the preferred substrates for pappalysin. PappA2 cleaves IGFBP 5 preferentially. IGFBPs are found tightly bound with insulin-like growth factor [IGF-1] which inhibits IGF-1 activity. IGF-1 is a 70 amino




## REIVINDICAÇÕES

EP2445524 (A1)
Bibliographic data
Description
<b>Claims</b>
Mosaics
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#### CANCER VACCINE

Claims not available for EP2445524 (A1)

Claims of corresponding document: WO2010149963 (A1)

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Claims tree

The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities the particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.

#### Claims

1. A vaccine composition comprising a pappalysin polypeptide, or antigenic part thereof, and an adjuvant and/or carrier.
2. A composition according to claim 1 wherein the pappalysin polypeptide is represented by the amino acid sequences i

## DOCUMENTO ORIGINAL

EP2445524 (A1)
Bibliographic data
Description
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#### CANCER VACCINE

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European Patent Office

Office européen des brevets


(11) Veröffentlichungsnummer:

(11) Publication number:

(11) Numéro de publication:

EP 2 445 524 A0

INPADOC



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EP2445524 (A1)

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- How might this information be useful to me?
- How reliable is this data?
- What are legal status (PRS) codes?

### INPADOC legal status: EP2445524 (A1) — 2012-05-02



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**CANCER VACCINE**


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Legal status of EP2445524 (A1) 2012-05-02:

EP	F	10734795 A (Patent of invention)
PRS Date :	2012/05/02	
PRS Code :	17P	
Code Expl.:	+ REQUEST FOR EXAMINATION FILED	
EFFECTIVE DATE :	20120120	
PRS Date :	2012/05/02	
PRS Code :	AK	
Code Expl.:	+ DESIGNATED CONTRACTING STATES:	
KD OF CORRESP. PAT. :	A1	
DESIGNATED COUNTR. :	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MIT NL NO PL PT RO SE SI SK SM TR	

FAMÍLIA DE PATENTES



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Documentos com a mesma data de prioridade (geralmente são pedidos de patente, para a mesma invenção, apresentados pelo mesmo requerente, noutros *Offices*).

EP2445524 (A1)

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### Family list: EP2445524 (A1) — 2012-05-02

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3 application(s) for: EP2445524 (A1)

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#	CANCER VACCINE												
★	<table style="width: 100%; font-size: 0.8em;"> <tr> <td>Inventor:</td> <td>Applicant:</td> <td>EC:</td> <td>IPC:</td> <td>Publication info:</td> <td>Priority date:</td> </tr> <tr> <td>BIRNIE RICHARD [GB]</td> <td>PROCURE THERAPEUTICS LTD [GB]</td> <td>A61K39/00D6</td> <td>A61K39/10</td> <td>EP2445524 (A1) 2012-05-02</td> <td>2009-06-23</td> </tr> </table>	Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:	BIRNIE RICHARD [GB]	PROCURE THERAPEUTICS LTD [GB]	A61K39/00D6	A61K39/10	EP2445524 (A1) 2012-05-02	2009-06-23
Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:								
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Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:								
BIRNIE RICHARD [GB]	PROCURE THERAPEUTICS LTD [GB]	A61K39/00D6	A61K39/00 A61P35/00 A61P37/04	LUS20121001102 (A1) 2012-04-26	2009-06-23								
★	<table style="width: 100%; font-size: 0.8em;"> <tr> <td>Inventor:</td> <td>Applicant:</td> <td>EC:</td> <td>IPC:</td> <td>Publication info:</td> <td>Priority date:</td> </tr> <tr> <td>BIRNIE RICHARD [GB]</td> <td>PROCURE THERAPEUTICS LTD [GB] BIRNIE RICHARD [GB]</td> <td>A61K39/00D6</td> <td>A51K39/10</td> <td>WO2010149963 (A1) 2010-12-29</td> <td>2009-06-23</td> </tr> </table>	Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:	BIRNIE RICHARD [GB]	PROCURE THERAPEUTICS LTD [GB] BIRNIE RICHARD [GB]	A61K39/00D6	A51K39/10	WO2010149963 (A1) 2010-12-29	2009-06-23
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BIRNIE RICHARD [GB]	PROCURE THERAPEUTICS LTD [GB] BIRNIE RICHARD [GB]	A61K39/00D6	A51K39/10	WO2010149963 (A1) 2010-12-29	2009-06-23								

## CITAÇÃO DE DOCUMENTOS

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EP2445524 (A1)

- Bibliographic data
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15 documents cited in relation to EP2445524 (A1)

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#### PATENTS CITED IN THE SEARCH REPORT

1. STEM CELL MARKERS

★ Inventor: MAITLAND NORMAN [GB] BRYCE STEVEN [GB]	Applicant: PROCURE THERAPEUTICS LTD [GB] MAITLAND NORMAN [GB] [GB]	EC: <a href="#">C12Q1/68M6B</a>	IPC: A61K39/00 A61P35/00 C12Q1/68	Publication info: WO2007012811 (A2) 2007-02-01 WO2007012811 (A3) 2007-03-29	Priority date: 2005-07-26
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2. METHOD OF TREATING PATIENTS WITH A MUCINOUS GLYCOPROTEIN (MUC-1) VACCINE

★ Inventor: LONGENECKER B MICHAEL [CA]	Applicant: BIOMIRA INC [CA] LONGENECKER B MICHAEL [CA]	EC: <a href="#">A61K31/739</a> <a href="#">A61K38/14</a> (+8)	IPC: A61K38/16 A61K9/127 A61P35/00	Publication info: WO2007015171 (A2) 2007-02-08 WO2007015171 (A3) 2007-06-14	Priority date: 2005-06-28
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• Documentos citados no *Search Report* e em Oposição

• Documentos que citam este pedido

## NON PATENT LITERATURE (NPL)

---

Original document: EP2420249 (A1) — 2012-02-22

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**Vaccine immunotherapy for immune suppressed patients**

◀ Page 9/13 Search report ▶

EP 2 420 249 A1

Application Number  
EP 11 18 3836

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 (IPC)
X	WO 02/34119 A (IMMUNO -RX) 2 May 2002 (2002-05-02) * page 41 - page 44 *	1,3	IIV - A61K39/39 A61K38/19 A61K39/00
X	WO 03/035004 A (IMMUNO -RX) 1 May 2003 (2003-05-01) * page 53 - page 56 *	1,3	
X	DUEÑAS-GONZALEZ A ET AL: "A pilot study of perilymphatic leukocyte cytokine mixture (IRX-2) as neoadjuvant treatment for early stage cervical carcinoma." INTERNATIONAL IMMUNOPHARMACOLOGY JUN 2002, vol. 2, no. 7, June 2002 (2002-06), pages 1087-1016, XP002442178, ISSN: 1567-9969 * the whole document *	1	

**NPL: artigo científico (não pesquisável no espacenet)**

## CÓDIGOS DE DOCUMENTOS (*Kind Codes*)

### Documentos citados:

X – documento que põe em causa a novidade

Y – documento que põe em causa atividade inventiva

A – documento que define o estado da técnica

### Pedidos publicados a nível europeu:

A1 – pedido publicado com relatório de pesquisa

A2 – pedido publicado sem relatório de pesquisa

A3 – relatório de pesquisa

B – pedido concedido

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### Result list

Select all  Compact

Approximately 180 results found in the Worldwide database for:  
cancer vaccine in the title or abstract AND ep as the application number

Sort by  Sort order

1. **CANCER VACCINE**

★ Inventor: BIRNIE RICHARD [GB]	Applicant: PROCURE THERAPEUTICS LTD [GB]	EC: <a href="#">A61K39/00D6</a>	IPC: A61K39/10
------------------------------------	--	------------------------------------	-------------------

2. **VACCINE FOR CERVICAL CANCER**

★ Inventor: KIM HONG-JIN [KR] LEE NA GYONG [KR] (+4)	Applicant: EYEGENE INC [KR]	EC: <a href="#">A61K39/12</a>	IPC: A61K39/00
--	--------------------------------	----------------------------------	-------------------

3. **PEPTIDE INDUCING XAGE-1B-SPECIFIC IMMUNE REACTION AND UTILIZATION OF SAME**

★ Inventor: NAKAYAMA EIICHI [JP] OHUE YOSHIHIRO [JP]	Applicant: UNIV OKAYAMA NAT UNIV CORP [JP]	EC: <a href="#">A61K39/00D6</a> <a href="#">C07K14/47A34</a> (+2)	IPC: A61K39/00 A61P35/00 C07K14/82 (+1)
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#### 1. CANCER VACCINE

Inventor: BIRNIE RICHARD [GB] Applicant: PROCURE THERAPEUTICS LTD [GB] EC: A61K39/00D6 IPC: A61K39/10 Publication info: EP2445524 (A1) Priority date: 2009-06-23 2012-05-02

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	CANCER VACCINE	EP2445524 (A1)	2012-05-02	BIRNIE RICHARD [GB]	PROCURE THERAPEUTIC [GB]
5	VACCINE FOR CERVICAL CANCER	EP2444103 (A1)	2012-04-25	KIM HONG-JIN [KR] LEE NA GYONG [KR]	EYEGENE INC [KR]

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<b>Applicant(s)</b>	For all designated states Procure Therapeutics Limited Innovation Centre York Science Park York YO10 5DG / GB [2012/18]
<b>Inventor(s)</b>	01 / BIRNIE, Richard Procure Therapeutics Limited Innovation Centre York Science Park York YO10 5DG / GB


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10.	<a href="#">2011 - 225538</a>	CANCER VACCINE
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15.	<a href="#">2011 - 126900</a>	CHIMPANZEE ADENOVIRUS VACCINE CARRIER
16.	<a href="#">2011 - 120588</a>	



PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2011-241222  
(43)Date of publication of application : 01.12.2011

(51)Int.Cl. *A61K 45/00 (2006.01)*  
*A61P 35/00 (2006.01)*  
*A61K 48/00 (2006.01)*  
*A61K 31/7088 (2006.01)*  
*A61K 39/39 (2006.01)*  
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*A61K 47/28 (2006.01)*  
*A61K 47/36 (2006.01)*  
*A61K 9/127 (2006.01)*  
*A61K 47/24 (2006.01)*

(21)Application number : 2011-169244 (71)Applicant : GLAXOSMITHKLINE BIOLOGICALS SA  
(22)Date of filing : 02.08.2011 (72)Inventor : FRIEDE MARTIN  
GARCON NATHALIE  
HERMAND PHILIPPE

(30)Priority  
Priority number : 1999 8906885 Priority date : 19.04.1999 Priority country : GB  
1999 301829 29.04.1999 US

(54) **VACCINE**  
(57)Abstract:  
PROBLEM TO BE SOLVED: To provide a vaccine composition including a cancer antigen.  
SOLUTION: There is provided a vaccine composition containing saponin, an immunostimulatory oligonucleotide containing a non-methylated CpG motif, a tumor rejection antigen or an antigen in association with a tumor supporting mechanism; monophosphoryl lipid A or 3 de-O-acetylated monophosphoryl lipid



JAPANESE [JP,2011-241222,A]

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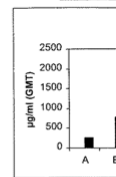
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The present invention relates to the new adjuvant composition used into a vaccine. Especially the adjuvant composition of the present invention contains the annexation thing which contains saponin and an immune

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