




WIPO Patent Information Services

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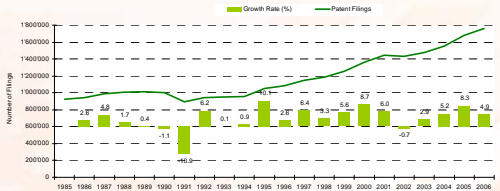



Overview

- The context of patent information
- PATENTSCOPE®
- Analysis Tools
- Future Challenges




The context of Patent Information

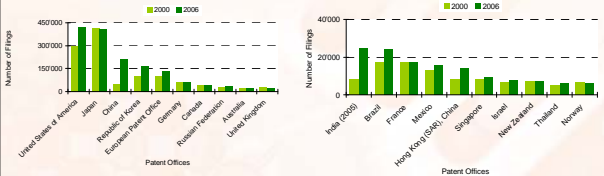


- 1.6 Million new applications disclosed every year.
- An important resource of technical information.

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The context of Patent Information




- Increasing diversity of:
 - Countries of Origin
 - Countries of Filing
 - Languages
 - Users

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Opportunities for exploiting patent information

- A patent is territorial, but disclosure is global
- Patents are limited in time
- The scope of a patent is limited by its claims
- Patents give the owners a right to prevent others from carrying out their invention (manufacturing or marketing) but not from learning from the invention



Demonstration


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WIPO's Patent Information Objectives

1. Publication and Dissemination of PCT International Applications
 - Electronic Publication via PATENTSCOPE®
 - PCT Data Production - dissemination of high-volume data to offices and subscribers
2. Enhanced Utilisation of Patent Information
 - Seminars, workshops, etc
 - Guides, tutorials
 - Technology studies, patent landscapes, particularly on issues related to public policy
 - Technical assistance projects with member states - Integration of more data


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Patent Information and Technology Transfer

- Identify and understand relevant technologies
 - Search
 - Analysis of trends, companies, etc.
- Evaluate the IP status of technologies
 - Ownership
 - Geographical coverage
 - Scope of IP rights
 - Legal status (grant and maintenance)

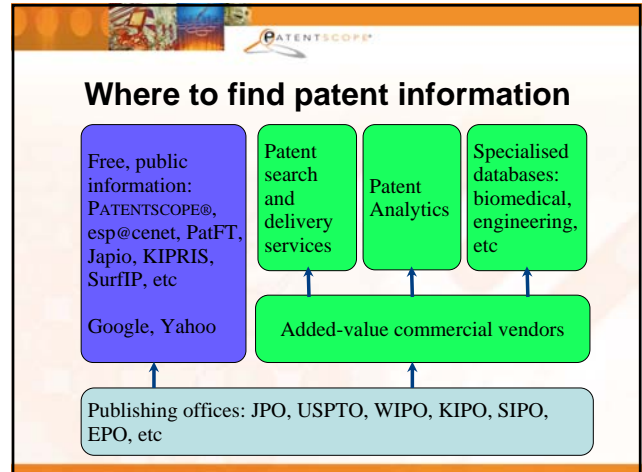
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The importance of status information

- Patent rights are territorial (although disclosure is global)
- Patents may or may not be granted and may or may not remain valid and in force
- Patents are limited by the scope of their claims
- Status information is critical to understanding **what** is patented and **where**

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Some Caveats

- Searching by simple keywords can lead to mis-interpretation. Beware of:
 - Ambiguity
 - Semantics
 - Obfuscation
- Search by classification (IPC) will improve the precision of a search
- Status information is always incomplete - validate your results
- No single online database has fully extensive coverage

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What is PATENTSCOPE® ?

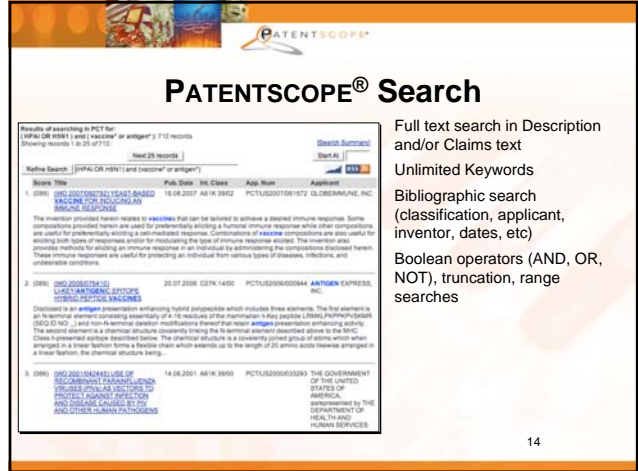
- WIPO's Patent Information Portal
- Database of 1.4 million international patent applications (PCT)
- Features:
 - Full text search
 - Status information
 - Graphical analysis tools
 - RSS notifications
 - Technology Focus

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PATENTSCOPE® Overview

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PATENTSCOPE® Search

Results of searching in PCT for: [HPAI OR H5N1 AND vaccine* OR antigen*] 712 records
Showing records 1 to 25 of 712

1. (884) WHO 2007071485 14.09.2007 AB1K1992 PCT/US2007/011972 GLOMERULONEPHRITIS VACCINE FOR PLOUROSIS AS BLENDED SUBSTANCE

The invention provided herein relates to vaccines that can be utilized to achieve a desired immune response. Some compositions provided herein are used for preventing existing a human immune response while other compositions are useful for preferentially eliciting a cell-mediated response. Combinations of vaccine compositions are also useful for eliciting both types of responses and/or for modulating the type of immune response elicited. The invention also provides methods for eliciting an immune response in an individual by administering the compositions disclosed herein. These immune responses are useful for protecting an individual from various types of diseases, infections, and undesirable conditions.

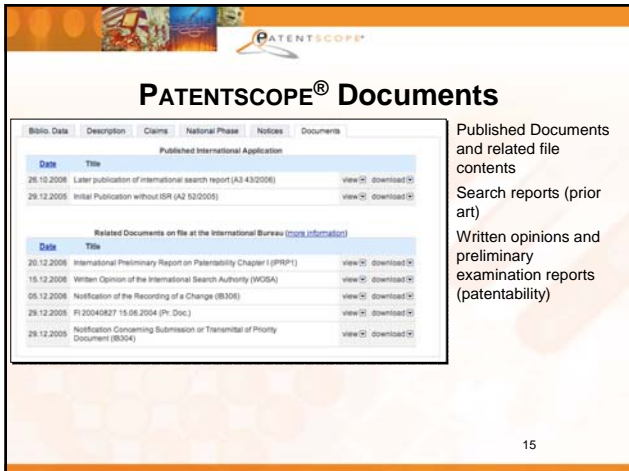
2. (884) WHO 2008071400 20.07.2008 CB7K1400 PCT/US2008/000944 ANTIGEN EXPRESS, ETC.

Disclosed is an antigen presentation comprising hybrid polypeptide which includes three elements. The first element is an N-terminal element consisting essentially of A-16 residues of the mammalian M-1 class II peptide-binding groove (B2*0201), and non-terminal domain modifications thereof that improve antigen presentation enhancing activity. The second element is a chemical structure consisting essentially of the N-terminal element described above to the B*1C class II presented antigen described below. The chemical structure is a covalently joined group of atoms which when arranged in a linear fashion forms a flexible chain which extends up to the length of 25 amino acids likewise arranged in a linear fashion, the chemical structure being:

3. (884) WHO 2001040827 14.06.2001 AB1K1990 PCT/US2001/000320 THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE DEPARTMENT OF HEALTH AND HUMAN SERVICES

Full text search in Description and/or Claims text
Unlimited Keywords
Bibliographic search (classification, applicant, inventor, dates, etc)
Boolean operators (AND, OR, NOT), truncation, range searches

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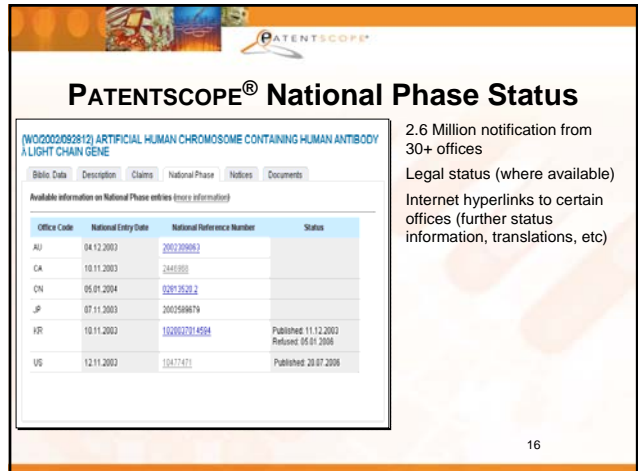
PATENTSCOPE® Documents

Published Documents and related file contents
Search reports (prior art)
Written opinions and preliminary examination reports (patentability)

Date	Title	view	download
26.10.2006	Later publication of international search report (A3 43/2006)	view	download
29.12.2005	Initial Publication without ISR (A2 53/2005)	view	download

Date	Title	view	download
20.12.2006	International Preliminary Report on Patentability Chapter I (PRP1)	view	download
15.12.2006	Written Opinion of the International Search Authority (WOISA)	view	download
05.12.2006	Notification of the Recording of a Change (B306)	view	download
29.12.2006	FI 20040827 15.06.2004 (Pr. Doc.)	view	download
29.12.2005	Notification Concerning Submission or Transmittal of Priority Document (B304)	view	download

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PATENTSCOPE® National Phase Status

2.6 Million notification from 30+ offices
Legal status (where available)
Internet hyperlinks to certain offices (further status information, translations, etc)

WIPO/2006/022612) ARTIFICIAL HUMAN CHROMOSOME CONTAINING HUMAN ANTIBODY LIGHT CHAIN GENE

Office Code	National Entry Date	National Reference Number	Status
AU	04.12.2003	2002209863	
CA	10.11.2003	2441950	
CN	05.01.2004	02613620.2	
JP	07.11.2003	2003586679	
KR	10.11.2003	1000027014504	Published: 11.12.2002 Refused: 05.01.2006
US	12.11.2003	10477411	Published: 20.07.2006

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PATENTSCOPE® Graphics

1. Enter any search criteria

2. Click on the Graphics icon

Refine Search: [(h5n1 or hpa1) and (vaccine* or antigen)] RSS

Score	Title	Pub. Date	Int. Class	App. Num	Applicant
1. (100)	(WO 2007/092792) YEAST-BASED VACCINE FOR INDUCING AN IMMUNE RESPONSE	16.08.2007	A61K 39/145	PCTUS2007/061572	GLOBEIMMUNE, INC.
<p>The invention provided herein relates to vaccines that can be tailored to achieve a desired immune response. Some compositions provided herein are used for preferentially eliciting a humoral immune response while other compositions are useful for preferentially eliciting a cell-mediated response. Combinations of vaccine compositions are also useful for eliciting both types of responses and/or for modulating the type of immune response elicited. The invention also provides methods for eliciting an immune response in an individual by administering the compositions disclosed herein. These immune responses are useful for protecting an individual from various types of diseases, infections, and undesirable conditions.</p>					
2. (055)	(WO 2006/010111) COMPOSITION	28.09.2006	A61K 39/09	PCTEP2006/002838	GLAXOSMITHKLINE BIOLOGICALS SA.
<p>The present invention relates to influenza vaccine formulations and vaccination regimes for immunizing against various diseases. In particular the invention relates to vaccine formulations comprising an oil-in-water emulsion adjuvant and 3D-MPL, their use in medicine, in particular their use in augmenting immune responses to various antigens, and to methods of preparation, wherein the oil in water emulsion comprises a squalene, a metabolizable oil and an emulsifying agent.</p>					
3. (055)	(WO 2007/053696) RNAI INHIBITION OF INFLUENZA VIRUS REPLICATION	10.05.2007	A61K 48/00	PCTUS2006/042801	ALNYLAM PHARMACEUTICALS, INC.
<p>The invention relates to compositions and methods for modulating the expression of influenza viral genes, and more particularly to the downregulation of influenza viral genes by chemically modified oligonucleotides</p>					

PATENTSCOPE® Graphics

International Applications by Publication Year

International Applications by Country of Origin

International Applications by Applicant/Assignee Name

International Applications by IPC subclass

PATENTSCOPE® RSS Notifications

Google Reader interface showing RSS notifications for Patentscope searches. The notifications include:

- COMPOSITIONS AND METHODS FOR ENHANCING AN ADJUVANT (WO 2008/039432)**

as PATENTSCOPE Search: (HPAI OR H5N1) and (vaccine* or antigen*) in ALIXON PHARMACEUTICALS, INC.

Provided herein are compositions and methods for enhancing an adjuvant effect. The methods involve targeting an adjuvant to an antigen presenting cell (APC) using a compound that binds to a cell surface marker of an APC. Such methods are useful for stimulating an immune response in an animal, such as a human, also provided are compositions that target an antigen and an adjuvant to an APC.
- LIVE BACTERIAL VACCINES FOR VIRAL INFECTION PROPHYLAXIS OR TREATMENT (WO 2008/039408)**

as PATENTSCOPE Search: (HPAI OR H5N1) and (vaccine* or antigen*) in AVIXIS.

The present invention provides a vaccine, method of use, and kit employing genetically selected and adapted, live attenuated bacterial strains including bacterium that express one or more avian influenza antigens for use in live vaccine compositions that can be orally administered to an individual to prevent against avian influenza. Genetic replication may be achieved through deletion of (D23) alpha and beta2 phase and/or gamma operons. The bacterial strains may be genetically isolated from natural phase infection by constitutive expression of a P22 phage receptor. Nucleic acid sequences encoding antigens homologous and non-homologous avian influenza proteins, having at least one modified codon for optimum expression when...
- COMPOSITIONS AND METHODS FOR CHITOSAN ENHANCED IMMUNE RESPONSE (WO 2008/039390)**

as PATENTSCOPE Search: (HPAI OR H5N1) and (vaccine* or antigen*) in GOVERNMENT OF THE USA, DEPT OF HEALTH HUMAN SERVICES.

The present invention relates to compositions needed to deliver antigen deposits, and children systemic deposits, and the use of depot compositions in treating and preventing diseases.

PATENTSCOPE® RSS Notifications

- RSS in action :
- <http://thewindmachine.blogspot.com/>

PATENTSCOPE® - Work in Progress

- Integrate more patent data from more patent offices
 - (Technical co-operation projects in Latin America, Africa and Asia)
- Improved search and analysis tools
- Language tools
- Patent landscapes online

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Thank You

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