



PATENTSCOPE PATENT FAMILIES

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Senior Patent Data Manager

Global Databases Division

Patent Database Section

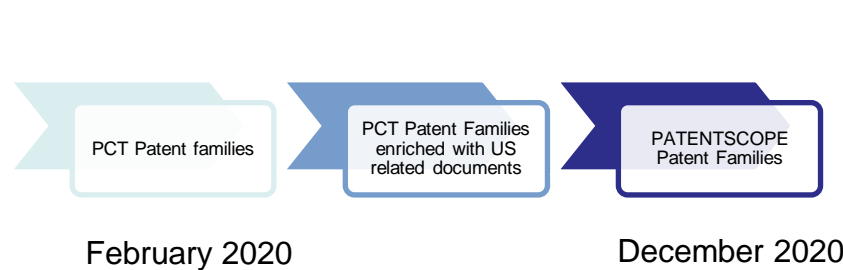
Geneva
01 December
2020

Agenda

- Timeline, Scope and Definitions
- Patent families – beyond the strong national entry links
- Searching for patent families
- Inside the creation of a PATENTSCOPE Patent Family
- Verification of PATENTSCOPE Patent Families
- Future plans
- Summary

PATENTSCOPE Patent Families

Timeline



Scope/Definitions

PCT Patent Families

- Built on strong links between a PCT application and its national entries
- A combination of
 - national phase entry data as received by participating offices (before publication) and (Step 1)
 - prior PCT links in the bibliographic data (after publication) (Step 2)
 - first and only priority included (Step 3)

PCT Patent Families enriched with US related documents

- Provisionals, re-issues, replications, divisions, continuations and continuations in part considered
- Grouping based on the calculation of first parent
- all re-issues, replications, divisions and continuations of an application and the application itself grouped in a single family. The continuations in part are not included in that family (Step 4)

PATENTSCOPE Patent Families

- Include families via both PCT and Paris route
- based on priority data (Step 5)

Building PATENTSCOPE Patent Families – beyond the strong national entry phase links

Enrichment of a patent family via US related documents

1. US20180255915 - IMPLEMENT AND DISPENSER SYSTEM

National Biblio. Data Description Claims Drawings Documents

PermaLink Machine translation ▼

Note: Text based on automatic Optical Character Recognition processes. Please use the PDF version for legal matters

[EN]

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation of U.S. patent application Ser. No. 15/221,745, filed Jul. 28, 2016, which is a continuation of U.S. patent application Ser. No. 14/509,942, filed Oct. 8, 2014, now U.S. Pat. No. 9,427,076, which is a continuation of U.S. patent application Ser. No. 13/254,441, filed Sep. 1, 2011, now U.S. Pat. No. 8,882,380, which is a national stage application of International Application No. PCT/US2010/060877, filed on Dec. 16, 2010, which is a continuation in part of International Application No. PCT/US2009/069408 filed on Dec. 23, 2009 and International Application No. PCT/US2009/069402 filed on Dec. 23, 2009; which claim priority to U.S. Provisional Application No. 61/410,514 filed on Nov. 5, 2010; U.S. Provisional Application No. 61/423,397 filed on Dec. 15, 2010; U.S. Provisional Application No. 61/423,414 filed on Dec. 15, 2010; U.S. Provisional Application No. 61/423,435 filed on Dec. 15, 2010; and U.S. Provisional Application No. 61/423,449 filed on Dec. 15, 2010. The entirety of each of the foregoing applications is incorporated herein by reference.

Enrichment of a patent family via Priorities

1. US20200016548 - DIBLOCK COPOLYMER VESICLES AND SEPARATION MEMBRANES COMPRISING AQUAPORIN WATER CHANNELS AND METHODS OF MAKING AND USING THEM

Mariana SPULBER
Karen GERSTANDT

Priority Data

PA201770963 20.12.2017 DK
PCT/EP2017/052567 06.02.2017 EP
1701945.6 06.02.2017 GB
SG10201703559Q 02.05.2017 SG

1. JP2020507456 - アクアポリン水チャネルを含むジブロックコポリマーベシクルおよび分離膜ならびにそれらの作成方法および使用方法

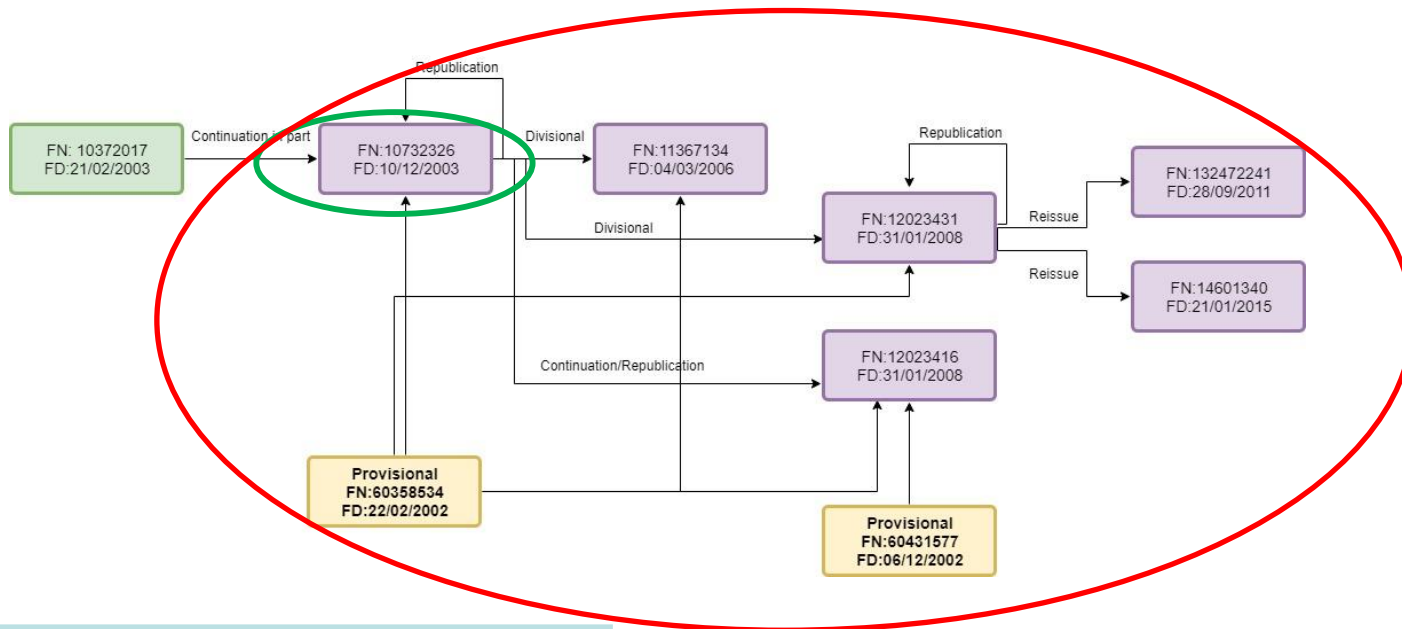
中西 基晴
武田 健志

Priority Data

PA201770963 20.12.2017 DK
PCT/EP2017/052567 06.02.2017 EP
1701945.6 06.02.2017 GB
10201703559Q 02.05.2017 SG

Building PATENTSCOPE Patent Families – beyond the strong national entry phase links

- Enrichment via US related documents – An example



10732326 - priorities=related documents

11367134 - priorities=related documents + application itself

12023431 - no priorities

12023416 - priorities=related documents + application itself

13247241 - no priorities

14601340 - no priorities

Searching for PATENTSCOPE Patent Families

FP:(EN_ALLTXT:((h5n1 viru*) (avian or bird)) AND DE:(pandemic near3 influenza) AND CL:(antibod~0.8))

885 results Offices all Languages en Stemming true Single Family Member false

Relevance 10 All Machine translation 1 / 89

5. **2947094** MONOCLONAL ANTIBODIES SPECIFIC TO HEMAGGLUTININ AND NEURAMINIDASE FROM INFLUENZA VIRUS H5-SUBTYPE OR N1-SUBTYPE AND USES THEREOF EP - 25.11.2015
Int.Class C07K 16/10 Appl.No 15176239
Applicant TEMASEK LIFE SCIENCES LABORATORY LTD Inventor QIAN HONG LIANG
Monoclonal antibodies and related binding proteins that bind specifically to the envelope glycoprotein of H5 subtypes or neuraminidase glycoprotein of N1 subtypes of avian influenza virus [AIV] are provided. The monoclonal antibodies and related binding proteins are useful for the detection of H5

6. **WO/2009/035420** MONOCLONAL ANTIBODIES SPECIFIC TO HEMAGGLUTININ AND NEURAMINIDASE FROM INFLUENZA VIRUS H5-SUBTYPE OR N1-SUBTYPE AND USES THEREOF WO - 19.03.2009
Int.Class C07K 16/10 Appl.No PCT/SG2008/000347
Applicant TEMASEK LIFE SCIENCES LABORATORY LIMITED Inventor QIAN, Hong Liang
Monoclonal antibodies and related binding proteins that bind specifically to the envelope glycoprotein of H5 subtypes or neuraminidase glycoprotein of N1 subtypes of avian influenza virus [AIV] are provided. The monoclonal antibodies and related binding proteins are useful for the

6. **WO2009035420 - MONOCLONAL ANTIBODIES SPECIFIC TO HEMAGGLUTININ AND NEURAMINIDASE FROM INFLUENZA VIRUS H5-SUBTYPE OR N1-SUBTYPE AND USES THEREOF**

PCT Biblio. Data Description Claims Drawings National Phase Notices

Documents

PermaLink Machine translation

Title
[EN] MONOCLONAL ANTIBODIES SPECIFIC TO HEMAGGLUTININ AND NEURAMINIDASE FROM INFLUENZA VIRUS H5-SUBTYPE OR N1-SUBTYPE AND USES THEREOF
[FR] ANTICORPS MONOCLONAUX SPÉCIFIQUES DE L'HÉMAGGLUTININE ET DE LA NEURAMINIDASE PROVENANT DU SOUS-TYPE H5 OU DU SOUS-TYPE N1 DU VIRUS DE LA GRIPPE ET LEURS UTILISATIONS

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Set Single Family Member to true for compressed results!

Searching for PATENTSCOPE Patent Families

FP:(EN_ALLTXT:(h5n1 viru*) (avian or bird)) AND DE:(pandemic near3 influenza) AND CL:(antibod-0.8)

544 results Offices all Languages en Stemming true Single Family Member true

REFINE OPTIONS

Offices: All

Languages: English

Stemming

Single Family Member

FP:(EN_ALLTXT:(h5n1 viru*) (avian or bird)) AND DE:(pandemic near3 influenza) AND CL:(antibod-0.8)

544 results Offices all Languages en Stemming true Single Family Member true

Relevance 10 All Machine translation

1 / 55

4. **2013224734** MONOCLONAL ANTIBODIES SPECIFIC TO HEMAGGLUTININ AND NEURAMINIDASE FROM INFLUENZA VIRUS H5-SUBTYPE OR N1-SUBTYPE AND USES THEREOF AU - 03.10.2013

Int.Class [C07K 16/10](#) Appl.No 2013224734 Applicant TEMASEK LIFE SCIENCES LABORATORY LIMITED Inventor

Monoclonal antibodies and related binding proteins that bind specifically to the envelope glycoprotein of H5 subtypes or neuraminidase glycoprotein of N1 subtypes of avian influenza virus [AIV] are provided. The monoclonal antibodies and related binding proteins are useful for the detection of H5

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Int.Class [C07K 16/10](#) Appl.No PCT/SG2008/000347 Applicant TEMASEK LIFE SCIENCES LABORATORY LIMITED Inventor QIAN, Hong Liang

Monoclonal antibodies and related binding proteins that bind specifically to the envelope glycoprotein of H5 subtypes or neuraminidase glycoprotein of N1 subtypes of avian influenza virus [AIV] are provided. The monoclonal antibodies and related binding proteins are useful for the

6. **WO/2008/140415** H5 SUBTYPE-SPECIFIC BINDING PROTEINS USEFUL FOR H5 AVIAN INFLUENZA DIAGNOSIS AND SURVEILLANCE WO - 20.11.2008

Int.Class [C07K 16/10](#) Appl.No PCT/SG2007/000134 Applicant TEMASEK LIFE SCIENCES LABORATORY LIMITED Inventor HO,Yuen Fern

The invention provides monoclonal antibodies and related binding proteins that bind specifically to

5. **WO2009035420 - MONOCLONAL ANTIBODIES SPECIFIC TO HEMAGGLUTININ AND NEURAMINIDASE FROM INFLUENZA VIRUS H5-SUBTYPE OR N1-SUBTYPE AND USES THEREOF**

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[FR] ANTICORPS MONOCLONAUX SPÉCIFIQUES DE L'HÉMAGGLUTININE ET DE LA NEURAMINIDASE PROVENANT DU SOUS-TYPE H5 OU DU SOUS-TYPE N1 DU VIRUS DE LA GRIPPE ET LEURS UTILISATIONS

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[FR] L'invention porte sur des anticorps monoclonaux et sur des protéines de liaison apparentées qui se lient spécifiquement à la glycoprotéine de l'enveloppe des sous-types H5 ou à la glycoprotéine neuraminidase des sous-types N1 du virus de la grippe aviaire [AIV]. Les anticorps monoclonaux et les protéines de liaison apparentées sont utiles pour la détection des sous-types H5 et N1 de AIV, comprenant les sous-types H5N1 et fournissent des moyens pour le diagnostic, la surveillance et le traitement d'infections virales dangereuses.



Results displayed take into account only PCT families ! The numbers will change with the release of the complete families!

Inside the creation of a PATENTSCOPE

Patent Family: WO/2009/035420

[PermaLink](#) [Machine translation](#) ▼

Publication Number WO/2009/035420	Title [EN] MONOCLONAL ANTIBODIES SPECIFIC TO HEMAGGLUTININ AND NEURAMINIDASE FROM INFLUENZA VIRUS H5-SUBTYPE OR N1-SUBTYPE AND USES THEREOF [FR] ANTICORPS MONOCLONAUX SPÉCIFIQUES DE L'HÉMAGGLUTININE ET DE LA NEURAMINIDASE PROVENANT DU SOUS-TYPE H5 OU DU SOUS-TYPE N1 DU VIRUS DE LA GRIPPE ET LEURS UTILISATIONS
Publication Date 19.03.2009	
International Application No. PCT/SG2008/000347	
International Filing Date 12.09.2008	
IPC C07K 16/10 2006.01 A61K 39/145 2006.01 A61P 31/16 2006.01 C12N 7/00 2006.01 G01N 33/53 2006.01 G01N 33/577 2006.01	Abstract [EN] Monoclonal antibodies and related binding proteins that bind specifically to the envelope glycoprotein of H5 subtypes or neuraminidase glycoprotein of N1 subtypes of avian influenza virus (AIV) are provided. The monoclonal antibodies and related binding proteins are useful for the detection of H5 and N1 subtypes of AIV, including H5N1 subtypes and provide means for the diagnosis, surveillance and treatment of dangerous viral infections. [FR] L'invention porte sur des anticorps monoclonaux et sur des protéines de liaison apparentées qui se lient spécifiquement à la glycoprotéine de l'enveloppe des sous-types H5 ou à la glycoprotéine neuraminidase des sous-types N1 du virus de la grippe aviaire (AIV). Les anticorps monoclonaux et les protéines de liaison apparentées sont utiles pour la détection des sous-types H5 et N1 de AIV, comprenant les sous-types H5N1 et fournissent des moyens pour le diagnostic, la surveillance et le traitement d'infections virales dangereuses.
CPC A61K 2039/505 A61P 31/12 A61P 31/16 C07K 16/1018 C07K 2317/34 C07K 2317/76 View more classifications	Also published as AU2008297594 AU2013224734 CN101883789 EP2201039 EP2947094 ID050.3118 ID2017/06480 IN1203/KOLNP/2010 JP2010539182 SG159865 SG183031 SG183032 US20100266585 US20130004496 US20130004497 VN23600 VN37101
Applicants TEMASEK LIFE SCIENCES LABORATORY LIMITED [SG]/[SG] 1 Research Link National University Of Singapore Singapore 117604, SG [AllExceptUS] QIAN, Hong Liang [CN]/[SG] [UsOnly] HE, Fang [CN]/[SG] [UsOnly] KWANG, Hwei-Sing [US]/[SG] [UsOnly]	
Inventors QIAN, Hong Liang HE, Fang KWANG, Hwei-Sing	
Agents PATEL, Upasana LLOYD WISE Tanjong Pagar P.O. Box 636 Singapore 910816, SG	
Priority Data 60/972,059 13.09.2007 US	

Inside the creation of a PATENTSCOPE Patent Family Step2 – WO/2009/035420

Family Integration via National Entry – post-publication

PCT Application

PermaLink Machine translation ▼

Publication Number
WO/2009/035420

Publication Date
19.03.2009

International Application No.
PCT/SG2008/000347

International Filing Date
12.09.2008

IPC
C07K 16/10 2006.01 A61K 39/145 2006.01
A61P 31/16 2006.01 C12N 7/00 2006.01
G01N 33/53 2006.01 G01N 33/577 2006.01

CPC
A61K 2039/505 A61P 31/12 A61P 31/16
C07K 16/1018 C07K 2317/34 C07K 2317/76

View more classifications

Applicants
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QIAN, Hong Liang [CN]/[SG] [UsOnly]
HE, Fang [CN]/[SG] [UsOnly]
KWANG, Hwei-Sing [US]/[SG] [UsOnly]

Inventors
QIAN, Hong Liang
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KWANG, Hwei-Sing

Agents
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LLOYD WISE Tanjung Pagar P.O. Box 636
Singapore 910816, SG

Priority Data
60/972,059 13.09.2007 US

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Also published as
AU2008297582 AU2013224734 CN101807183 EP2211063 EP2347082 US201011117201936486
US201001117201936486 US201001117201936486 SG183031 SG183032 US201001117201936486 US20100004496
US20100004497 WO200901 WO200901



Office	Publication Number	Prior PCT Publication
ID	2017/06480	2009035420
JP	2010524824	2009035420
SG	2010016582	2009035420
VN	1201000814	2009035420
VN	1201304075	2009035420



Not all national entries are visible on the national entry tab !

Inside the creation of a PATENTSCOPE Patent Family Step3 – WO/2009/035420

PCT Application

PermaLink Machine translation ▼

Publication Number
WO/2009/035420

Publication Date
19.03.2009

International Application No.
PCT/SG2008/000347

International Filing Date
12.09.2008

IPC

C07K 16/10 2006.01	A61K 39/145 2006.01
A61P 31/16 2006.01	C12N 7/00 2006.01
G01N 33/53 2006.01	G01N 33/577 2006.01

CPC

A61K 2039/505	A61P 31/12	A61P 31/16
C07K 16/1018	C07K 2317/34	C07K 2317/76

[View more classifications](#)

Applicants
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[AllExceptUS]
QIAN, Hong Liang [CN]/[SG] [UsOnly]
HE, Fang [CN]/[SG] [UsOnly]
KWANG, Hwei-Sing [US]/[SG] [UsOnly]

Inventors
QIAN, Hong Liang
HE, Fang
KWANG, Hwei-Sing

Agents
PATEL, Upasena
LLOYD WISE Tanjong Pagar P.O. Box 636
Singapore 910816, SG

Priority Date
60/972,059 13.09.2007 US

Title
[EN] MONOCLONAL ANTIBODIES SPECIFIC TO HEMAGGLUTININ AND NEURAMINIDASE FROM INFLUENZA VIRUS H5-SUBTYPE OR N1-SUBTYPE AND USES THEREOF
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Also published as
[AU2008297594](#) [AU2013224734](#) [CN101883785](#) [EP2201065](#) [EP2947084](#) [US200801001706348](#)
[JP2009026016](#) [JP2010539162](#) [SG183031](#) [SG183032](#) [US20100268582](#) [US20130004496](#)
[US20130004497](#) [US20130004498](#) [US20130004499](#)

Family Integration of a unique first priority

- This step adds to the family the priority application, but only if it is a single priority shared by all of the applications (exception: US related documents)
- The unique first priority in this case is a US provisional application which is not published, therefore no new member is being added

Inside the creation of a PATENTSCOPE Patent Family Step4 – WO/2009/035420

PCT Application

Family Integration via US Related Patents

PermaLink Machine translation ▾

Publication Number
WO/2009/035420

Publication Date
19.03.2009

International Application No.
PCT/SG2008/000347

International Filing Date
12.09.2008

IPC

C07K 16/10 2006.01	A61K 39/146 2006.01
A61P 31/16 2006.01	C12N 7/00 2006.01
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CPC

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C07K 16/1018	C07K 2317/34	C07K 2317/76

View more classifications

Applicants
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Also published as

AU2008297539	AU2013224734	EP20100972	EP221002	EP2047094	WO/2009/035420
US2009004496	US2009059102	SG183032	SG183032	US2013004496	
US2013004496	US2009004496	US2009004496	US2009004496	US2009004496	US2009004496

US 20100266585 21.10.2010

Extract of Description: *This application is a filing under 35 USC 371 of PCT/SG2008/000347, filed Sep. 12, 2008, which claims priority from U.S. Provisional Application Ser. No. 60/972,059, filed Sep. 13, 2007.*

US 20130004496 03.01.2013

Extract of Description: «*The present application is a division of U.S. patent application Ser. No. 12/677,971 filed 12 Mar. 2010 which in turn is a filing under 35 USC 371 of PCT/SG2008/000347, filed 12 Sep. 2008, which in turn claims priority to U.S. Provisional Application Ser. No. 60/972,059, filed 13 Sep. 2007.*»

US 20130004497 03.01.2013

Extract of Description: «*The present application is a division of U.S. patent application Ser. No. 12/677,971 filed 12 Mar. 2010 which in turn is a filing under 35 USC 371 of PCT/SG2008/000347, filed 12 Sep. 2008, which in turn claims priority to U.S. Provisional Application Ser. No. 60/972,059, filed 13 Sep. 2007.*»

Inside the creation of a PATENTSCOPE Patent Family Step5 – WO/2009/035420

PCT Application

PermaLink Machine translation ▼

Publication Number
WO/2009/035420

Publication Date
19.03.2009

International Application No.
PCT/SG2008/000347

International Filing Date
12.09.2008

IPC
C07K 16/10 2006.01 A61K 39/145 2006.01
A61P 31/16 2006.01 C12N 7/00 2006.01
G01N 33/53 2006.01 G01N 33/577 2006.01

CPC
A61K 2039/505 A61P 31/12 A61P 31/16
C07K 16/1018 C07K 2317/34 C07K 2317/76
View more classifications

Applicants
TEMASEK LIFE SCIENCES LABORATORY LIMITED
[SG]/[SG]
1 Research Link, National University of Singapore Singapore 117604, SG
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QIAN, Hong Liang [CN]/[SG] [UseOnly]
HE, Feng [CN]/[SG] [UseOnly]
KWANG, Hwei-Sing [US]/[SG] [UseOnly]

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[FR] L'invention porte sur des anticorps monoclonaux et sur des protéines de liaison apparentées qui se lient spécifiquement à la glycoprotéine de l'enveloppe des sous-types H5 ou à la glycoprotéine neuraminidase des sous-types N1 du virus de la grippe aviaire (AIV). Les anticorps monoclonaux et les protéines de liaison apparentées sont utiles pour la détection des sous-types H5 et N1 de AIV, comprenant les sous-types H5N1 et fournissent des moyens pour le diagnostic, la surveillance et le traitement d'infections virales dangereuses.

Also published as
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Family Integration via priorities

Office
Singapore

Application Number
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183032

Publication Date
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Publication Kind
A

CPC
A61K 2039/505 A61P 31/12
C07K 2317/34 C07K 2317/76
View more classifications

Applicants
TEMASEK LIFE SCIENCES LA

Inventors
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Priority Data
60/972,059 13.09.2007 US

Title
[EN] MONOCLONAL ANTIBODIES SPECIFIC TO HEMAGGLUTININ AND NEURAMINIDASE FROM INFLUENZA VIRUS H5-SUBTYPE OR N1-SUBTYPE AND USES THEREOF

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Griffith Hack

Priority Data
60/972,059 13.09.2007 US

Title
[EN] MONOCLONAL ANTIBODIES SPECIFIC TO HEMAGGLUTININ AND NEURAMINIDASE FROM INFLUENZA VIRUS H5-SUBTYPE OR N1-SUBTYPE AND USES THEREOF

Abstract
[EN] Monoclonal antibodies and related binding proteins that bind specifically to the envelope glycoprotein of H5 subtypes or neuraminidase glycoprotein of N1 subtypes of avian influenza virus (AIV) are provided. The monoclonal antibodies and related binding proteins are useful for the detection of H5 and N1 subtypes of AIV, including H5N1 subtypes and provide means for the diagnosis, surveillance and treatment of dangerous viral infections.

Verification of the PATENTSCOPE patent families

- The calculations are not based on mere formatting on application or publication numbers;
- Each identifier to be considered in the calculations must meet a few conditions such as a matching dates in combination of a publication or application number;
- Similarity checks are being performed on titles, applicants or classifications especially in the case of the US related documents where each child must be a good match to its first parent to be included in the family;
- Office specific data is also included in the algorithms for even higher reliability (for example US serial number should correspond to the application date)
- Rules are flexible enough to include exceptions as well

Future Plans

- Implementation of a new tab dedicated to the PATENTSCOPE patent families
- Clear specification of the inclusion criteria
- A timeline showing the evolution of the invention
- An additional verification based on machine learning
- Available in the first quarter of 2021
- «Report an error» functionality

Summary: things to remember

- Use «Single Family member option» for results based on family. Currently priority is given to the PCT member.
- Not all national entries are visible on the national entries tab
- Only the latest publication is displayed in PATENTSCOPE therefore families do not list the same invention multiple times
- Priorities are not complemented, a complex algorithm taking into consideration the various elements/attributes of an entity is used instead
- Coming soon: a new tab with detailed information for each family member

PATENTSCOPE Enhanced Coverage

2019

- Costa Rica (full text)
- Peru (full text)
- Greece (bibliographic data + full text)
- Latvia (bibliographic data)
- Lithuania (bibliographic data)

2020

- Japan standardization
 - Coverage (+18million filings)
 - Utility models
 - Search improved (JP eras *R02-107911*)
- Ecuador (full text)
- Netherlands (bibliographic data + full text)
- Serbia (bibliographic data + full text)
- Slovakia (bibliographic data + full text)
- Sweden (bibliographic data + full text)
- Czechoslovakia (process of publication)
- Czech Republic (process of publication)
- Switzerland (Coming soon)
- Finland (Coming soon)
- New Zealand (Coming soon)



THANK YOU

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