

MedsPaL and VaxPaL

-

Update on initiatives on publicly accessible databases of patent status information concerning medicines and vaccines, WIPO 33rd SCP, Geneva, December 8th 2021

Medicines Patent Pool



Introduction to the Medicines Patent Pool



THE MEDICINES PATENT POOL

MPP is a public health organization established in 2010 to accelerate **access** to new HIV medicines in LMICs

...and to facilitate the development of new formulations needed in developing countries

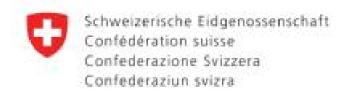
Operates through voluntary licences to facilitate early entry of generic manufacturers in LMICs

Expanded to work on hepatitis C, Tuberculosis (2016) other patented essential medicines (2018)....and COVID-19 (2020)

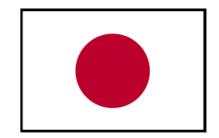


The MPP is funded by:





Swiss Agency for Development and Cooperation SDC





Background on MedsPaL



MedsPaL THE MEDICINES PATENTS AND LICENCES DATABASE

Most comprehensive open-access/free source of information on the patent and licensing status of patented essential medicines in low- and middle-income countries.

Patent status data on more than

NATIONAL PATENT APPLICATIONS

from over 130 LMICs

Covering approximately

PRIORITY MEDICINES

(approx. 260 formulations)



www.medspal.org

With information on

LICENCES

and other access agreements in LMICs

And data exclusivity information from

COUNTRIES

Widely endorsed by public health organisations:



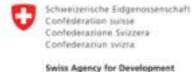








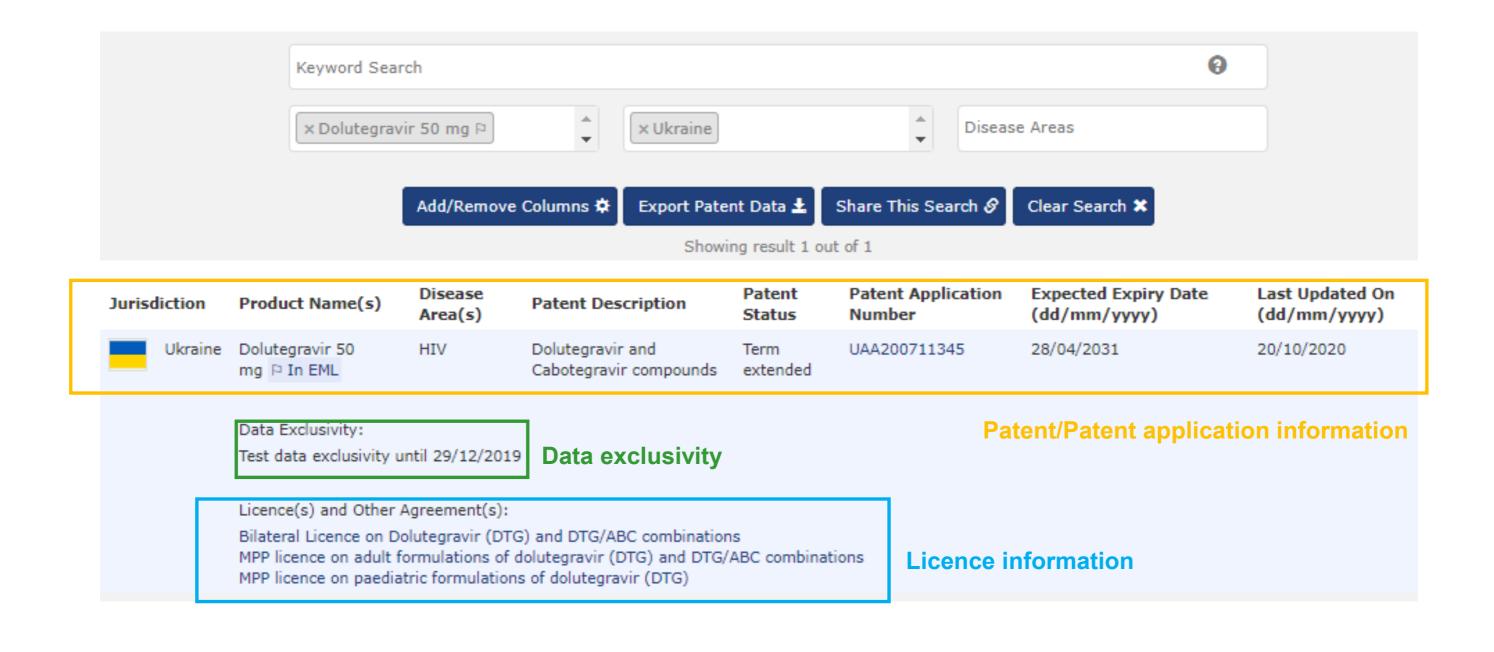




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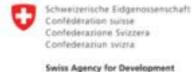












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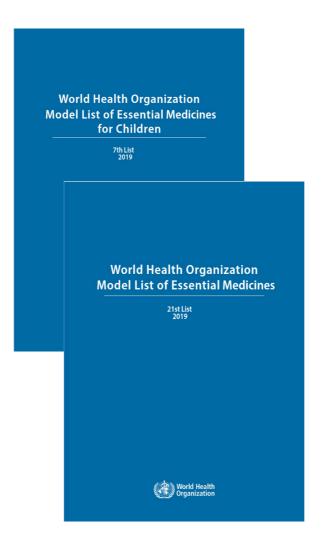




Patented medicines for the treatment of HIV, hepatitis C and tuberculosis that are (or were) included in WHO treatment guidelines



Patented medicines on WHO Essential Medicines list (EML)



COVID-19

NEW!
Patented
COVID-19
therapeutic
candidates





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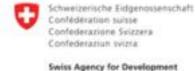












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- USFDA Orange book 📥
- Health Canada patent register
- Publicly available licences
- Published patent landscapes (e.g. by WHO or UNITAID)
- MPP patent searches
 - 1- Identification of relevant patents

2 -Collection of related patent family information

- INPADOC Patent family, biblio and legal events
- WIPO Patentscope
- Patent holder disclosures

 (e.g. to national patent offices; Pat-Informed, MPP licences)
- Patent offices

- Online national and regional PO registers
- National patent collections on WIPO PatentScope
- INPADOC Legal Status data
- Direct communications with patent offices, local experts
- MOUs with patent offices
 - 3 Status check & updates



Automated processes



Latest developments/Updates



MedsPaL THE MEDICINES PATENTS AND LICENCES DATABASE

13700

NATIONAL PATENT APPLICATIONS

from over 130 LMICs

Covering approximately

140

PRIORITY MEDICINES

(approx. 260 formulations)



With information on

LICENCES

and other access agreements in LMICs

And data exclusivity information from

COUNTRIES

Since **October** 2019

+5700

+40 (approx.

60 formulations)

+20

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Category	Medicine (INN or development) name			
WHO EML updates Biologics included in the WHO EML in 2019	adalimumab and alternatives, certolizumab pegol, etanercept, golimumab and infliximab nivolumab and pembrolizumab			
Patented COVID-19 potential therapeutic candidates	Small molecules : remdesivir, favipiravir, ruxolitinib, baricitinib, dapagliflozin, molnupiravir, AT-527, PF-332 Biologics : tocilizumab, sarilumab, siltuximab			
HIV	Islatavir, cabotegravir/rilpivirine injectable extended release, Cabotegravir tablet, lenacapavir, GSK3640254			
HIV Paediatric formulations	abacavir/lamivudine/lopinavir/ritonavir and abacavir/lamivudine/dolutegravir.			
Tuberculosis New candidates in the development pipeline	OPC-167832, telacebec (Q203), GSK3036656, delpazolid (LCB01-371) BTZ-043			
Hepatitis C New paediatric formulations	Glecaprevir/Pibrentasvir, Sofosbuvir/Velpatasvir 150/37.5 mg/pellets			

In green, products for which MPP has voluntary licences with the patent holder





- Re-structured the patent families in the database to improve accuracy of the information displayed
- MedsPaL relied on the INPADOC extended patent families and these have been split into simpler or smaller ones.
- Families with multiple PCT applications previously "grouped" together under one patent description have been split
 and each simple family given an appropriate description and associated with the right products.

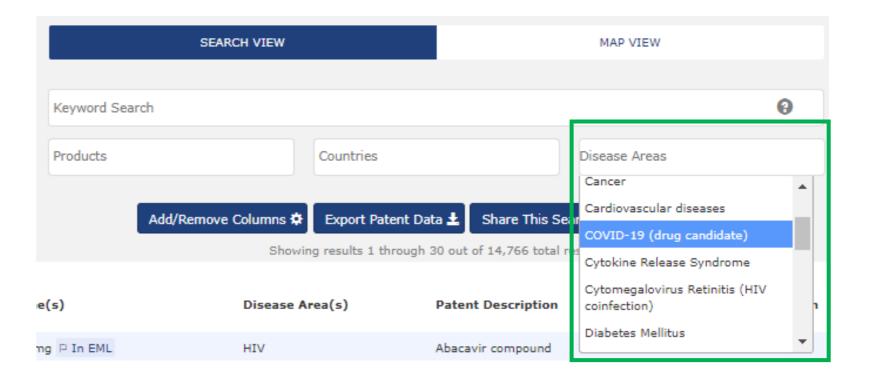
The table shows an "old"
exxtended patent family, the
corresponding simple families
into which it has been split and
if these are shown today in
MedsPaL

Extended family description	Simple family description	On MedsPaL
Rilpivirine compound & combinations	Rilpivirine fumarate	No
	Rilpivirine hydrochloride	Yes
	Rilpivirine/Tenofovir combinations with or without FTC	Yes, but only in association with the relevant combination
	Rilpivirine compound and analogues and their use in HIV	Yes

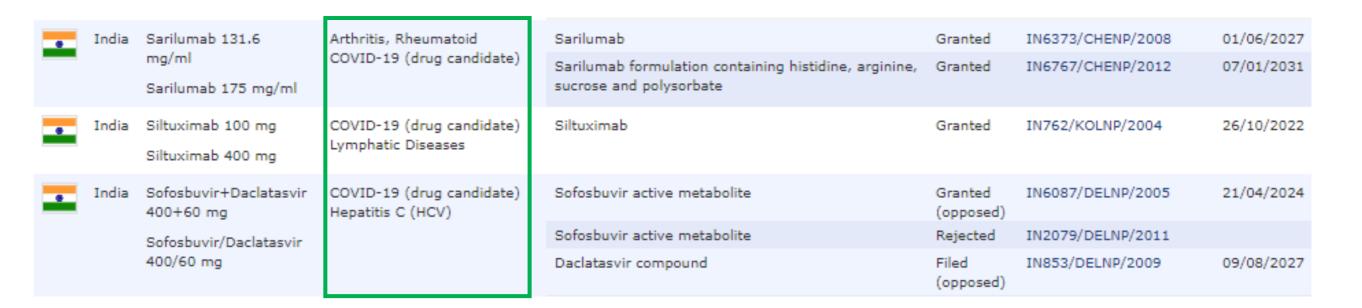


User interface – new search field

New search box in <u>MedsPaL</u> that allows filtering the content by "Disease Areas"



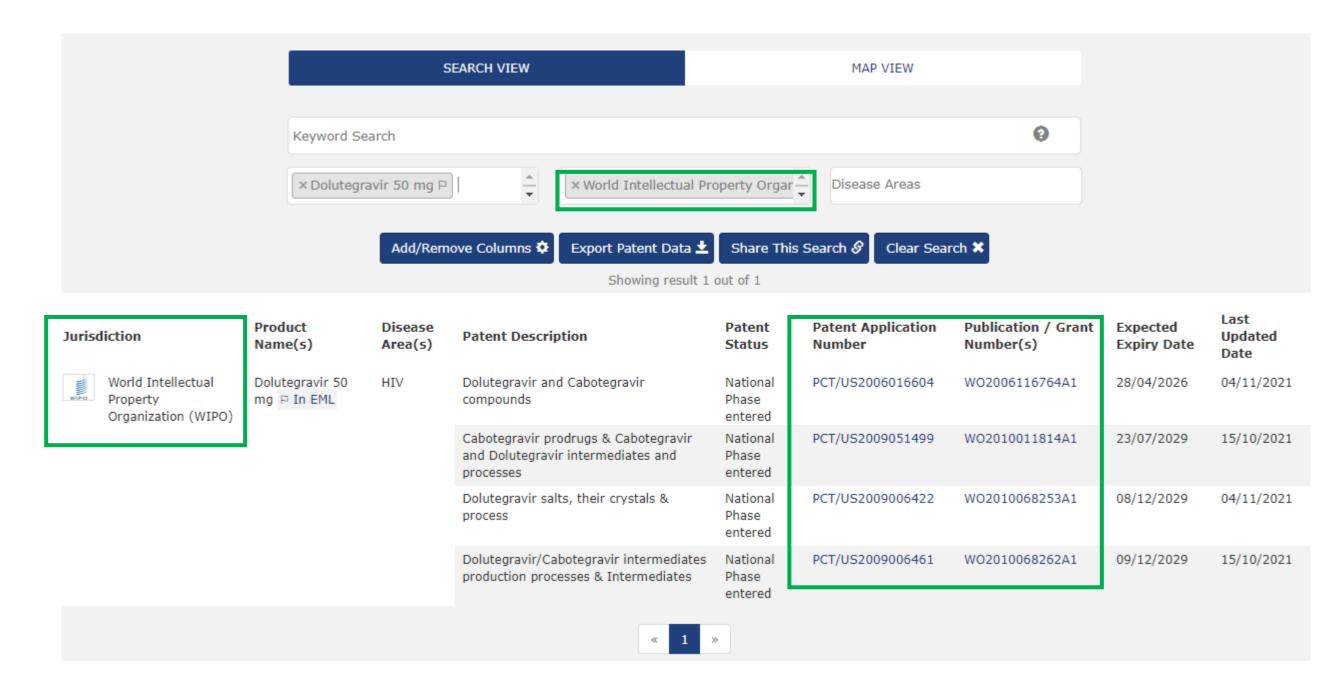
All products are associated to one or more disease .This information is displayed in a new column in the results table :





User interface – Added PCT applications as a new "jurisdiction"

International applications now shown on the interface:



Particularly important for new COVID products, as patent applications are often still in international phase



Collaborations with Patent offices

Regional





Eurasian Patent Office



European Patent Office

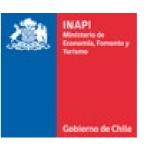


National





Brazil



Chile





Ecuador



Egypt



Costa Rica



South Africa







Peru

14 patent offices have signed MoUs with the MPP committing to share data







Jul 2020 Feb 2021 **June 2021** December 2021 MPP's VaxPaL **Preliminary** decision to VaxPaL on discussions Launch proceed www.vaxp with the (Excel with third al.org workbook) parties creation of **VaxPaL**

- Preliminary
 discussions on
 COVID-19
 vaccines patent
 landscape (with
 WHO and other
 stakeholders)
- Started
 commissioning
 patent landscapes
 from IP firm
 iProPAT IP
 Solutions on
 specific vaccines
 and
 complemented
 with data from
 other sources
- Published the patent data compiled in an Excel workbook
- Searchable online DB "based" on MedsPaL
 Worldwide patent status



- The Medicines Patent Pool (MPP)'s new patents database devoted to COVID-19 vaccines
 - launched on June 6th, 2021 as an excel workbook
 - released as a fully searchable database on December 3rd, 2021
- VaxPaL was compiled for the purpose of providing greater transparency on patents relating to key COVID-19 vaccines
- Includes patent families identified as being relevant or potentially relevant, with a focus primarily (though not exclusively) on patents filed by the entities that have developed each vaccine.
- Worldwide patent status
- Users should be aware that relevant patent applications are likely to have been filed over the past year and a half but may not yet be public* or only recently published and might not yet be included in the database



- Vaccines approved (in-use) in at least one country
- Vaccines being reviewed by WHO and progressing through the Emergency Use Listing (EUL) /Prequalification (PQ) evaluation process*

Included in June 2021

AZD1222, AstraZeneca-Oxford

Covaxin, Bharat/ICMR

Zorecimeran, Curevac

Sputnik V, Gamaleya

Ad26.COV2-S, J&J

mRNA-1273, Moderna

NVX-CoV2373, Novavax

Tozinameran, Pfizer/Biontech

BBIBP-CorV, Sinopharm/BBIBP

Coronavac, Sinovac

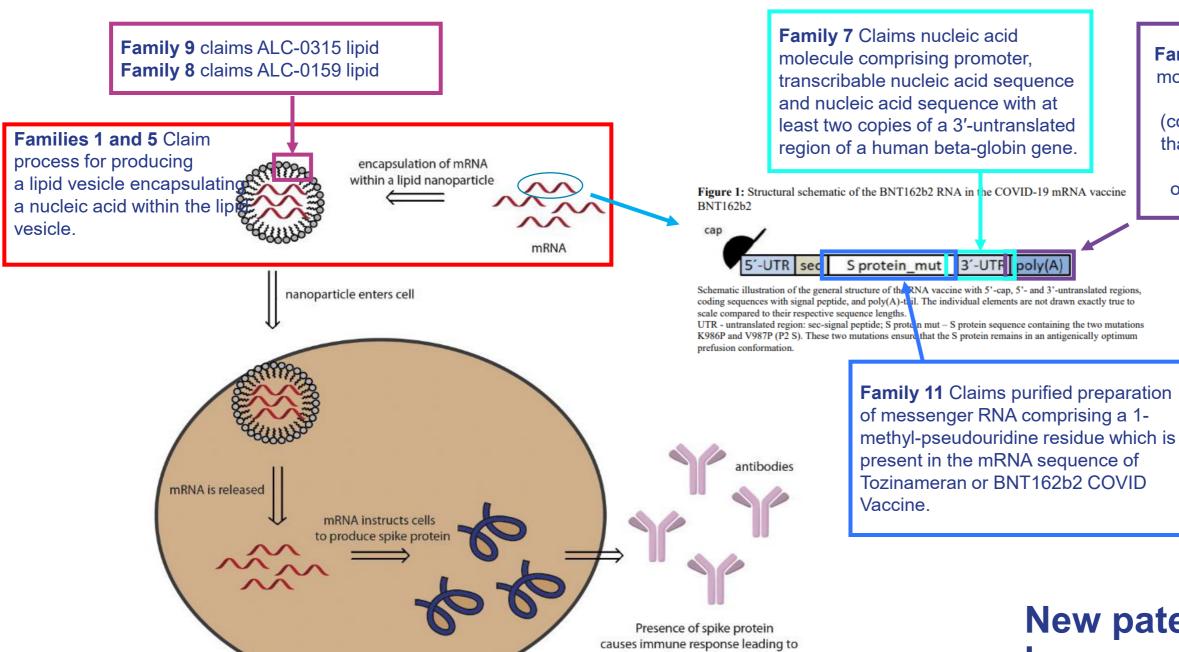
Added in December 20021

Ad5-nCoV, CansinoBio
CoV2 preS dTM-AS03 vaccine,
Sanofi Pasteur
SCB-2019, Clover
Biopharmaceuticals



VaxPaL – What information is included?

Patent families identified as being relevant or potentially relevant for Tozinameran, Pfizer/Biontech mRNA vaccine: 14 families



Family 10 Claims nucleic acid molecule comprising modified polyadenyl sequence (containing nucleotides other than A nucleotides), the RNA obtainable well as RNA obtainable by transcription

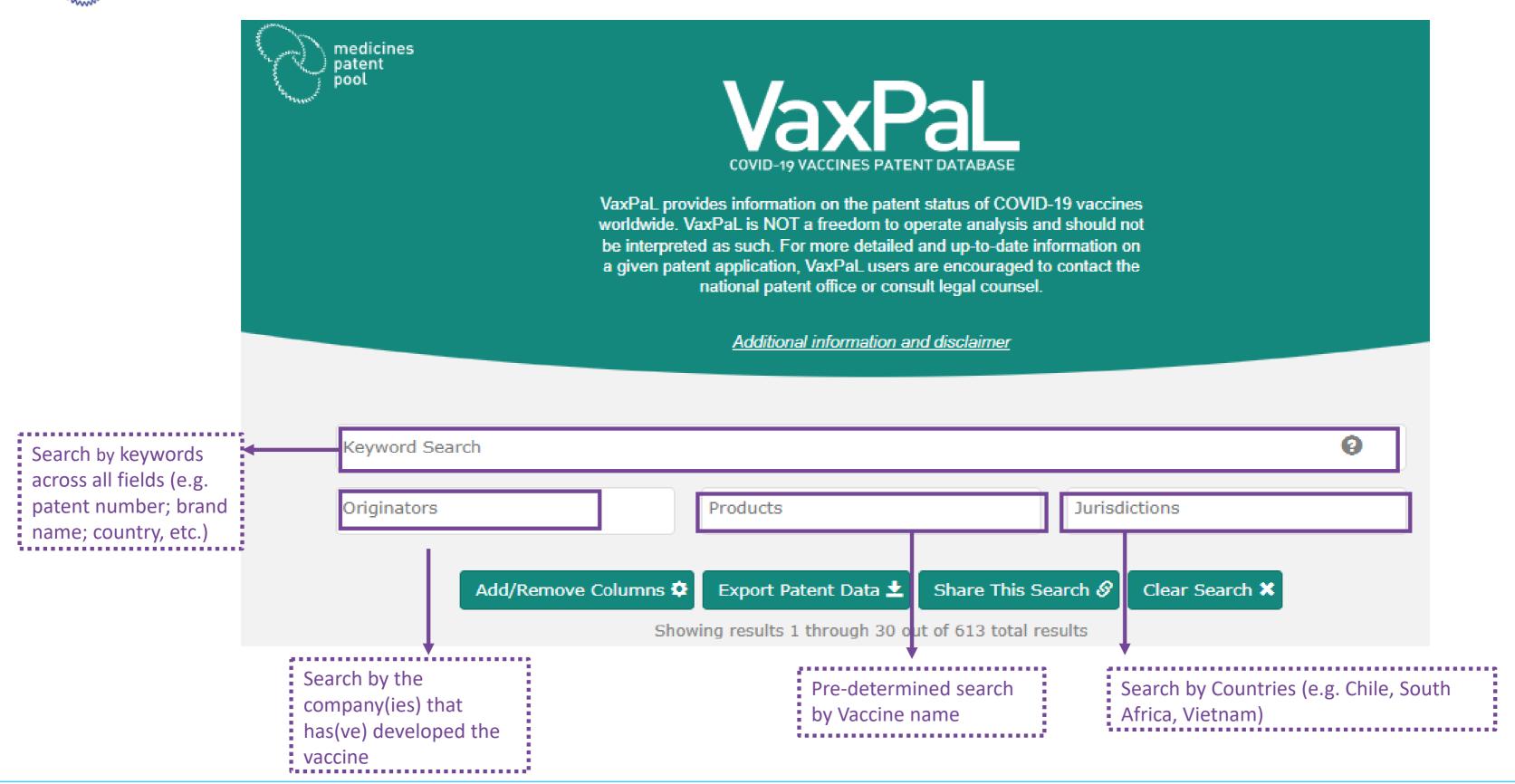
New patent applications to be expected covering e.g. formulations, vaccine compositions, uses ...

the production of antibodies



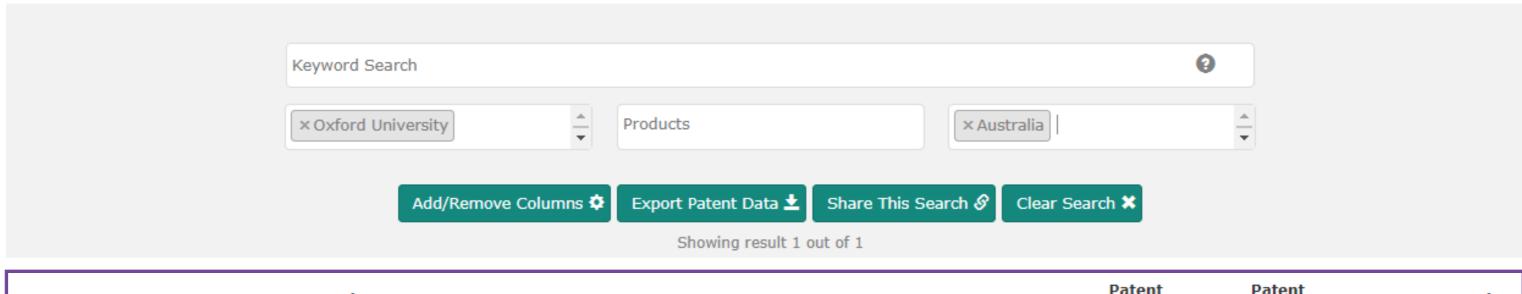
VaxPaL demo











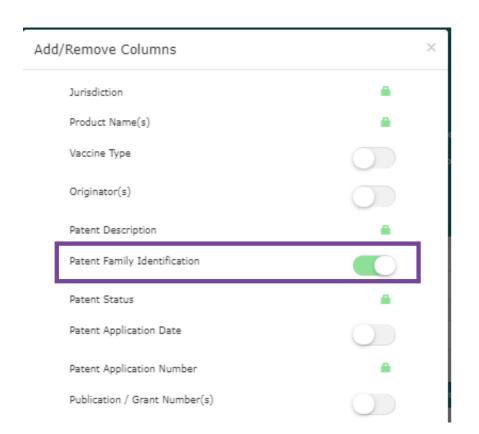
Ju	ırisdiction	1	Product Name(s)	Vaccine Type	Originator(s)	Patent Description	Patent Status	Patent Application Date	Patent Application Number	Expected Expiry Date
XX,	Austr	stralia	ChAdOx1 nCoV-19 (AZD1222) 0.5 ml	Viral vector	AstraZeneca Oxford University	Simian adenovirus and hybrid adenoviral vectors	Term extensions filed	25/05/2012	AU2012270144	25/05/2032
						Method for generating a recombinant adenovirus comprising a nucleotide sequence encoding a heterologous gene of interest for use as a vaccine	Filed	30/08/2019	AU2019332107	30/08/2039

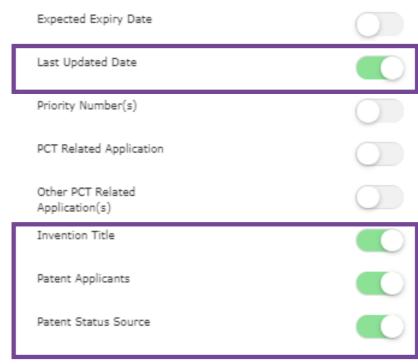
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Patent/Patent application information



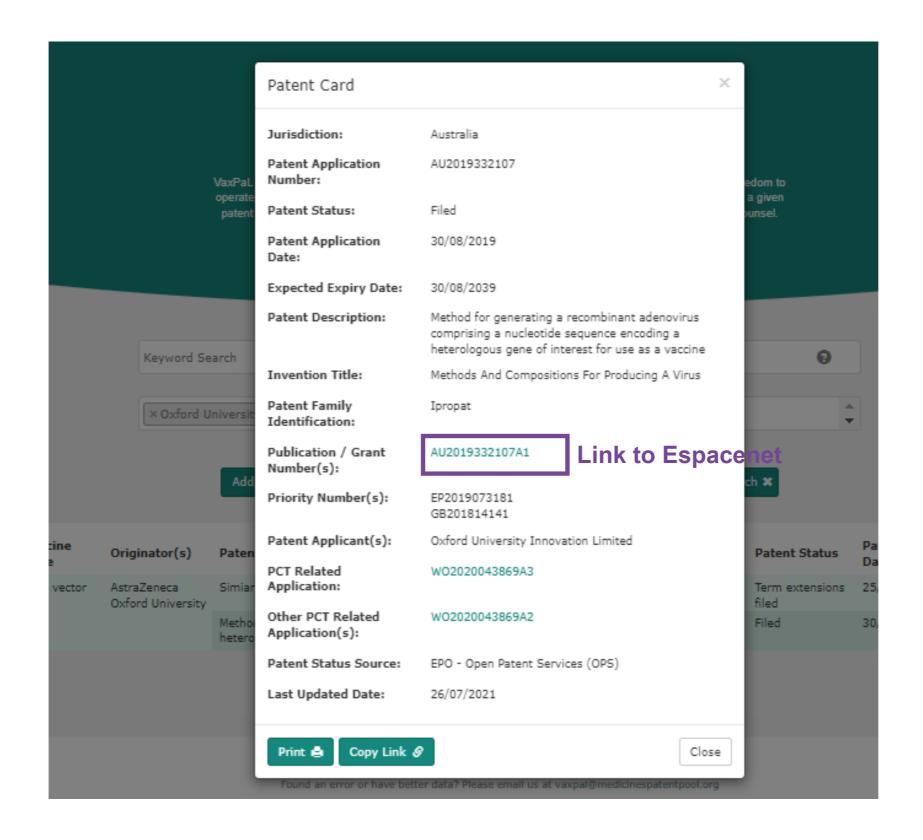
Search results – add/remove columns













MedsPaL & VaxPaL should not be considered a complete and authoritative sources of patent information and are not meant to provide a 'freedom-to-operate' analysis. They only provide a snapshot at a particular point in time, based on the information that was available to the Medicines Patent Pool

Interested users are advised to contact the relevant national/regional patent office, or to consult local patent counsel, to obtain up to date information on any given patent application identified in MedsPaL or VaxPaL

Users are also invited to submit information on any data that requires updating to the MPP at

medspal@medicinespatentpool.org vaxpal@medicinespatentpool.org



MPP's HIV, TB and hepatitis C activities are funded by:



MPP'S EXPANSION INTO PATENTED ESSENTIAL MEDICINES IS UNDERTAKEN WITH FINANCIAL SUPPORT FROM:



Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra

Swiss Agency for Development and Cooperation SDC THE MINISTRY OF FOREIGN AFFAIRS OF JAPAN CONTRIBUTES TO MPP'S COVID-19 WORK, SUPPORTING RAPID ACCESS TO AFFORDABLE HEALTH TECHNOLOGIES TO END THE PANDEMIC.





THANK YOU

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WWW.VAXPAL.ORG

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