

Navigating COVID-19 innovation: the COVID-19 vaccines and treatments patent landscape

COVID-19 Global research and innovation forum

Geneva, 25 February 2022

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Patents: a maze or rather a puzzle?



What can be a vaccine or therapeutic patent about?

Active ingredient

Antigens

Adjuvants

Sequences

Delivery/administration

Manufacturing process

Platform/enabling technologies



Composition

Formulations

Synthesis

Drug delivery

Combination therapies

Secondary medical uses



Territoriality

Disclosure



P A T E N T

Availability of information

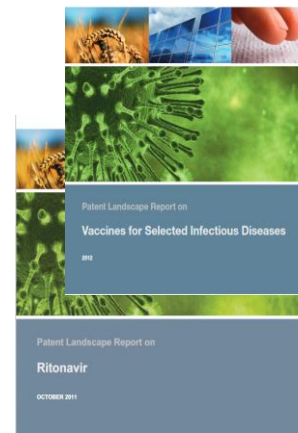
Access to information

PATENTSCOPE

WIPO's contribution to the pandemic response – existing resources

- Preparation of patent landscape reports
- [Compilation](#) of publicly available landscape reports
- Capacity building in patent search and analysis in developing countries
- Patent information services to researchers in developing countries through the [TISCs](#)
- WHO-WIPO-WTO trilateral cooperation

| Year | Title | Author | Country / Territory | Topic | Language |
|------|--|---|------------------------------|-------------------------------|------------------|
| 2021 | Vacinas à Base de Subunidade Proteica para Prevenção da da COVID-19: Mecanismo de Ação, Ensaios Clínicos e Pedidos de Patentes | INPI Brazil | Brazil | Public health / Life sciences | Portuguese |
| 2020 | КОРОНАВИРУС (Betacoronaviruses) | Rospatent | Russian Federation | Public health / Life sciences | Russian |
| 2020 | A Dose of Innovation | IP Australia, Patent Analytics Hub | Australia | Public health / Life sciences | English |
| 2020 | Coronavirus: Diagnostics and Therapeutics in human | Spanish Patent and Trademark Office (OEPM) | Spain | Public health / Life sciences | Spanish |
| 2020 | Diagnostic Tests for Coronavirus | Brazilian National Institute of Industrial Property | Brazil | Public health / Life sciences | Portuguese |
| 2020 | Technologies for COVID: Ventilators | Brazilian National Institute of Industrial Property | Brazil | Public health / Life sciences | Portuguese |
| 2019 | Biotechnology in the Area of Tropical Diseases | CIGEP/SIC | Colombia | Public health / Life sciences | English, Spanish |
| 2019 | Chimeric Antigen Receptor T-cell immunotherapy | EPO | European Patent Office (EPO) | Public health / Life sciences | English |



CHEMICAL COMPOUNDS SEARCH ▾

[Convert structure](#) [Upload structure](#) [Structure editor](#) [Found compounds](#) [Found Markush Formulas](#)

Search type
Compound name

▼

☐ Search for scaffold

☐ Include enumerated Markush structures

Offices
[All](#)

WIPO's contribution to the pandemic response

- [WIPO COVID-19-related services and support](#)
- COVID-19 [PATENTSCOPE index](#)
- Trilateral study on Promoting Access to Medical Technologies and Innovation ([COVID-19 updated extract](#))
- [Trilateral Workshop](#) on Innovation in, and Access to, COVID-19 Technologies - Accessing and Using Information Resources for the Pandemic Response – February 28, 2022

Directors General of WHO, WIPO and the WTO agree on intensified cooperation in support of access to medical technologies worldwide to tackle the COVID-19 pandemic

Geneva, June 22, 2021

On June 15, 2021, we, the Directors General of WHO, WIPO and the WTO, met in a spirit of cooperation and solidarity to map out further collaboration to tackle the COVID-19 pandemic and the pressing global challenges at the intersection of public health, intellectual property and trade. Acutely conscious of our shared responsibility to communities across the world as they confront a health crisis of unprecedented severity and scale, we pledged to bring the full extent of the expertise and resources of our respective institutions to bear in ending the COVID-19 pandemic and improving the health and well-being of all people, everywhere around the globe.



PATENTSCOPE COVID-19 INDEX

The WIPO COVID-19 Search Facility of PATENTSCOPE will provide scientists, engineers, public health policymakers, industry actors and members of the general public with an easily accessible source of intelligence for improving the detection, prevention, and treatment of diseases such as the novel coronavirus.

"Given the drastic impact of the COVID-19 crisis on human health and welfare, the world needs easy access to every bit of information available for the successful innovation in the pursuit of vaccines, treatments and cures. Patent documents are rich sources of technological know-how acquired by humans over the centuries," said WIPO Director General Francis Gurry. "I am pleased that WIPO's new patent-searching tool helps disseminate information on technologies that others may build upon for the global fight against COVID-19."

At the time of release, the new PATENTSCOPE search facility provides dozens of search queries specially curated by patent information experts who have identified technological areas relevant to the detection, prevention and treatment of COVID-19.

PATENTSCOPE contains over 83 million patent and related documents, provides comprehensive searching of patent information with multi-lingual search capabilities and an automatic translation system that uses Artificial Intelligence [AI] technologies for highly accurate results.

Via the new COVID-19 functionality, thousands of documents deemed of potential use to innovators working on COVID-19 mitigation efforts would be returned.

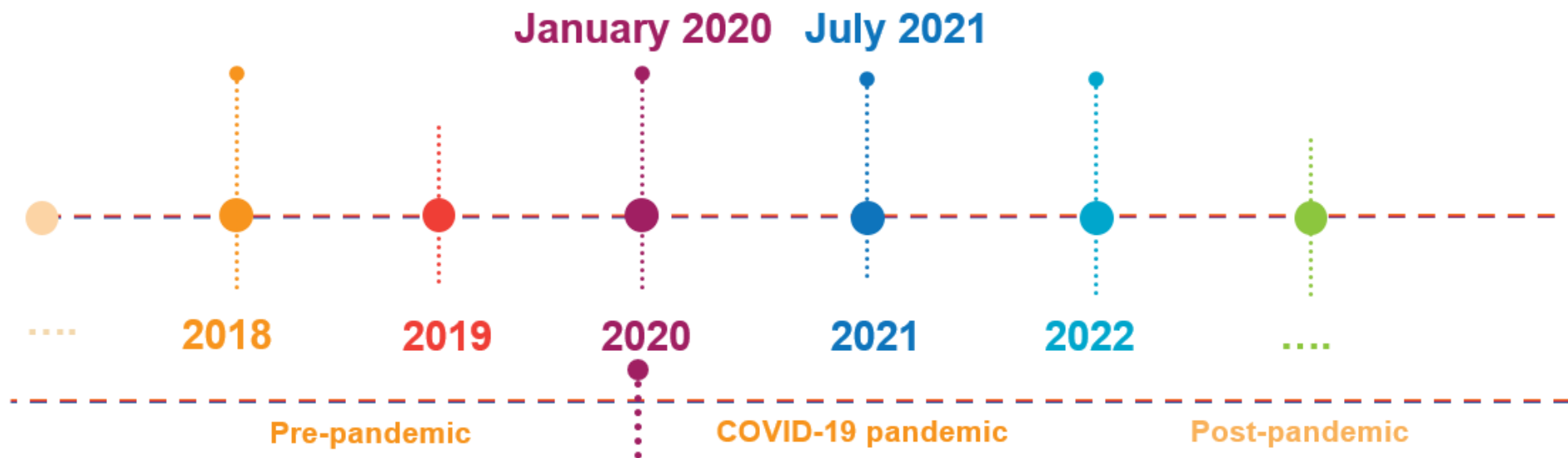
[Full press release](#)

Artificial respiration Diagnostics Disinfection Informatics Medical Equipment Medical Facilities and Transport Medical Treatment Medical treatment/Prophylactic

Medical treatment/Therapeutic Personal protective equipment

WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

COVID-19-related innovation and patenting activity



WIPO upcoming patent landscape report

- First observations on patenting activity from January 2020 to September 2021
- The use and response of the patent system to related patent applications
- Comparison to and observations from vaccines and therapeutic trackers clinical and pre-clinical data (WHO, Milken Institute, RAPS)

Patent Landscape Report

COVID-19-related vaccines and therapeutics

The report will be available as of March 10, 2022 [here](#)

Save the date: March 10, 2022 – 2pm – 4pm CET



Launch of WIPO Patent Landscape Report on COVID-19

March 10, 2022

Photos: Getty Images / Jonathan Filskov – Drazen Ziglic



Scan for registration details and program

Navigating out of the maze

Awareness

Access to information

Dissemination

Skills



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