

# COVID 19 Innovation & patents Netval

Questel, September 2022

# We serve 20,000 clients in 30 countries.

#### **Key metrics**

- 1,500 Questel employees
- 300+ local agents
- 1,200+ local translators
- 1.5M users
- 20,000 patent foreign filing per year
- Petabytes of hosted data
- Daily update from 500+ sources
- 3 Questel Labs [AI & Big Data R&D]

## Questel

#### AMERICAS

Alexandria US New York US Provo US Rochester US San Francisco US Wilmington US Buffalo US Montréal CA Medellín CO São Paulo BR Arequipa PE

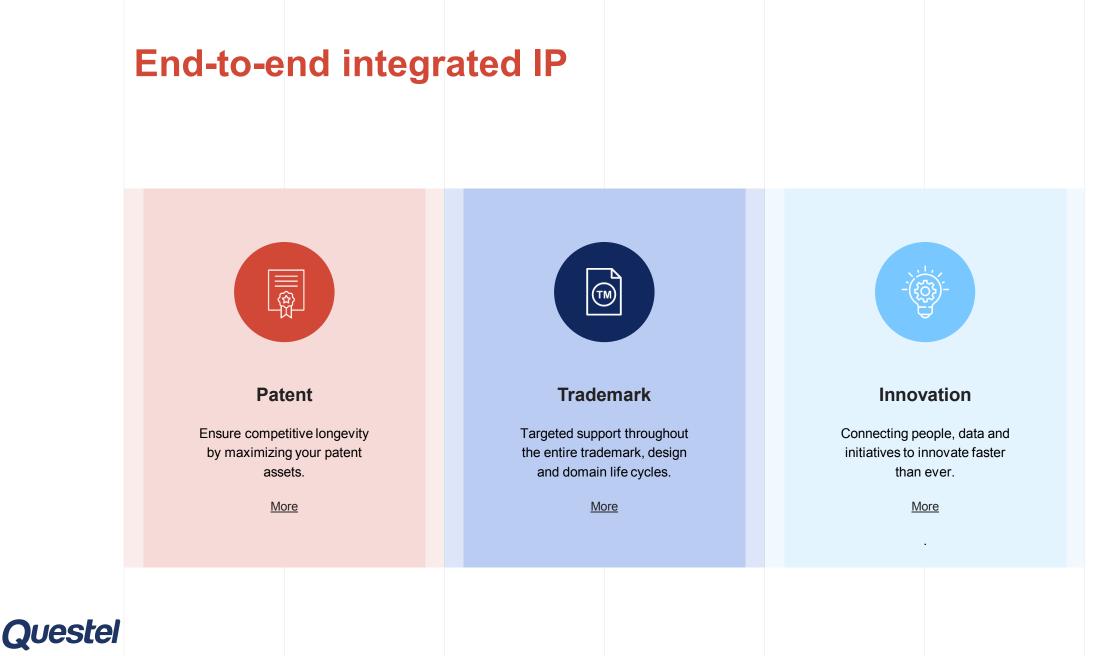
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#### EMEA

Paris FR Munich DE London UK Amsterdam NL Milan IT Geneva CH Copenhagen DK Tel Aviv IL Tunis TU Stockholm SW Ljubljana SL

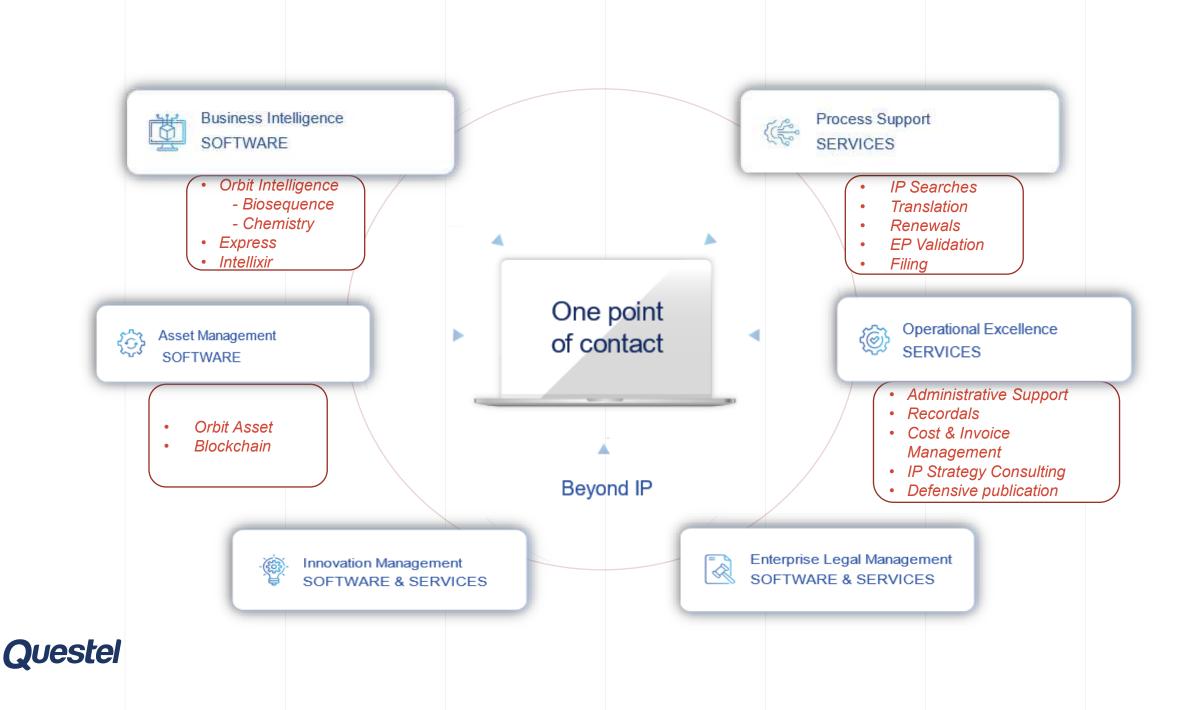
#### APAC

Tokyo JP Yokohama JP Osaka JP Shanghai CN Tianjin CN Taipei TW New Delhi IN Singapore SG Seoul KR



### Questel Life Cycle of Innovation





TESTIMONIAL

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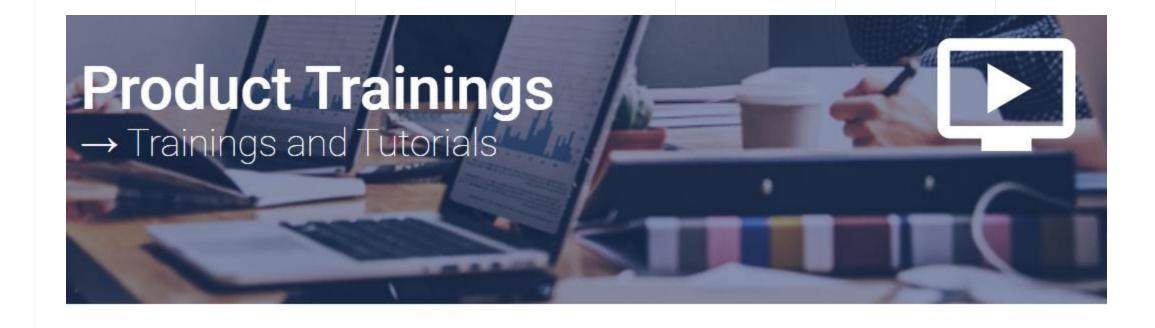
Published, 20 April 2022

Juestel

# How Policlinico di Milano TTO uses the Orbit Asset IP management system to manage its patent portfolio and protect biomedical inventions and knowhow.



For our latest testimonial, we speak to technology transfer specialists Alessandro Cervi and Margherita Chierici in the Policlinico di Milano's Technology Transfer Office (TTO) about how the Orbit Asset IP management system supports them in their work.



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#### Covid 19, Innovation and Patents

After two years of the covid 19 crisis, what innovations have been achieved and in which technological areas?

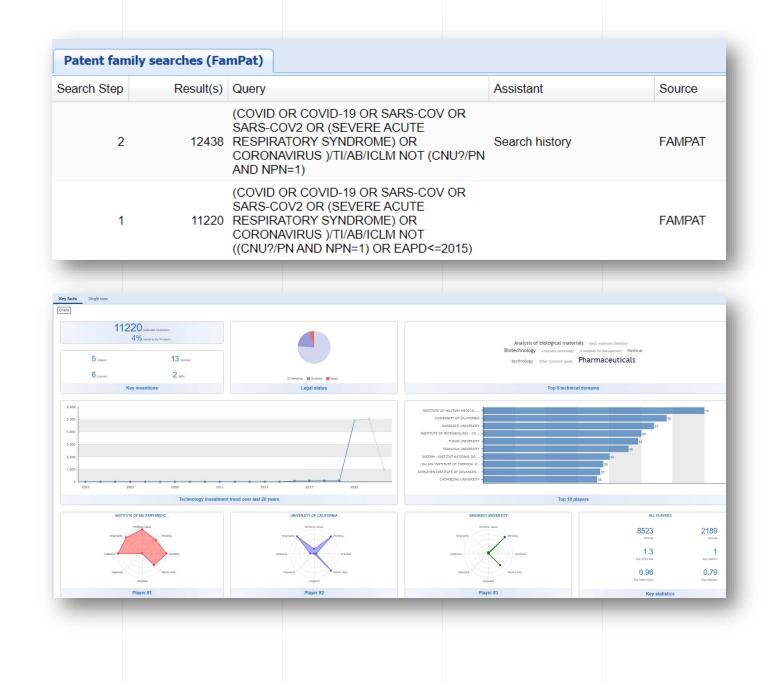


- Introduction
- Global trends
- Market location
- Key Players
- Technologies & applications
- Conclusion

#### Introduction

The Covid-19 pandemic is an emerging infectious disease, known as **coronavirus 2019 or Covid-19**, caused by the **coronavirus SARS-CoV-2**. It appears on 16 November **2019** in Wuhan, Hubei province (in central China), before spreading around the world.

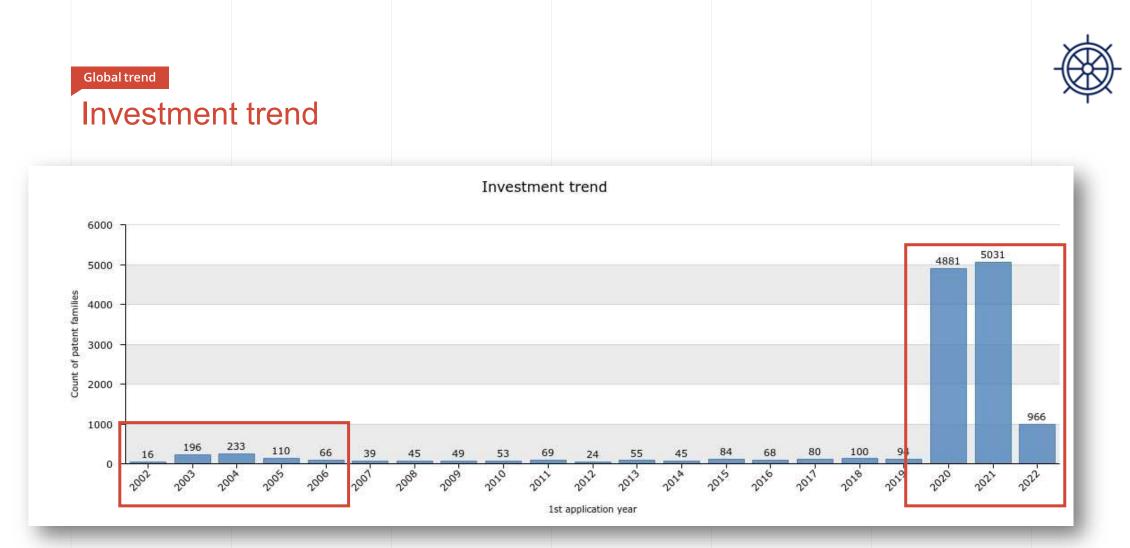
Since then, investment in the health sector has been very significant and has led to the **development of patents for detection and treatment** of this disease.



#### Global trends

01

Investment trend and technology



Looking at investment in Covid research, there was an **initial peak between 2002 and 2006**. This period corresponds to the first SARS outbreak, also caused by the SARS-CoV coronavirus, but research in this area stopped when the reported cases disappeared.



#### **Global trend**

#### Investment trend / Technology



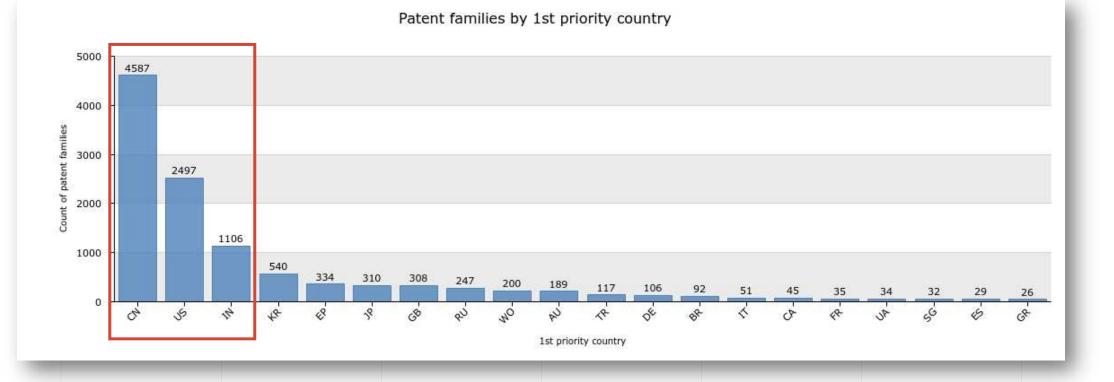
Patents against covid-19 have exploded since 2020. They mainly concern the **pharmaceutical industry but also biotechnologies, the analysis of biological materials and even computer technology**.

#### Market location

Location of R&D and key market



# Identify the location of R&D on the basis of priorities



If we look at the countries where the 1st priority is located, we can see that R&D is concentrated in **China**, **the US and India**.

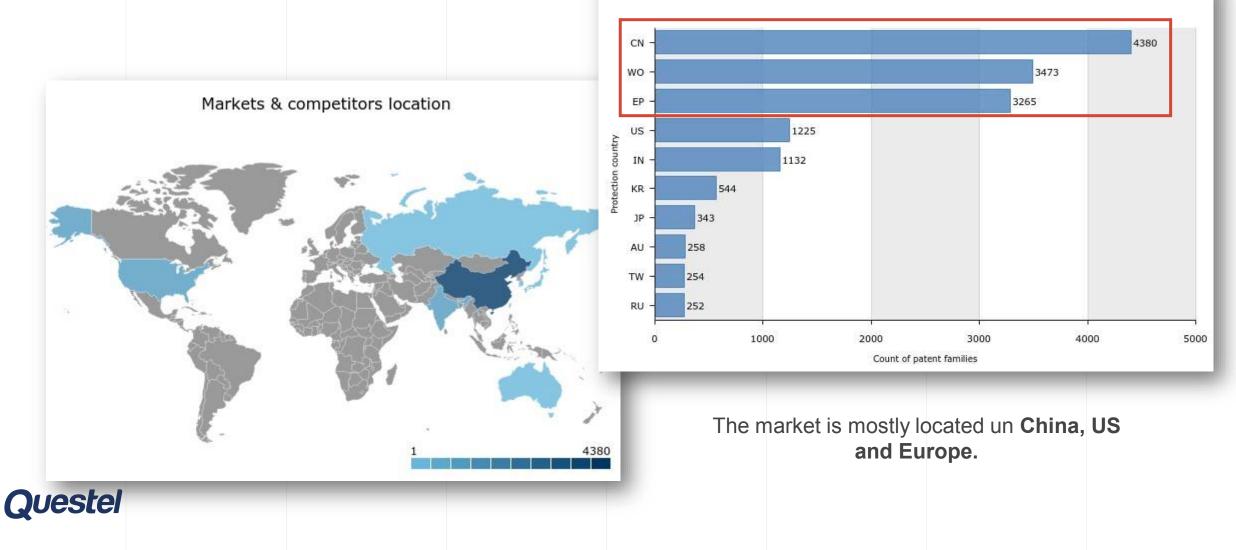
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**Market location** 



# Market location (top 10)





### Key Players

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Geographical coverage of key players

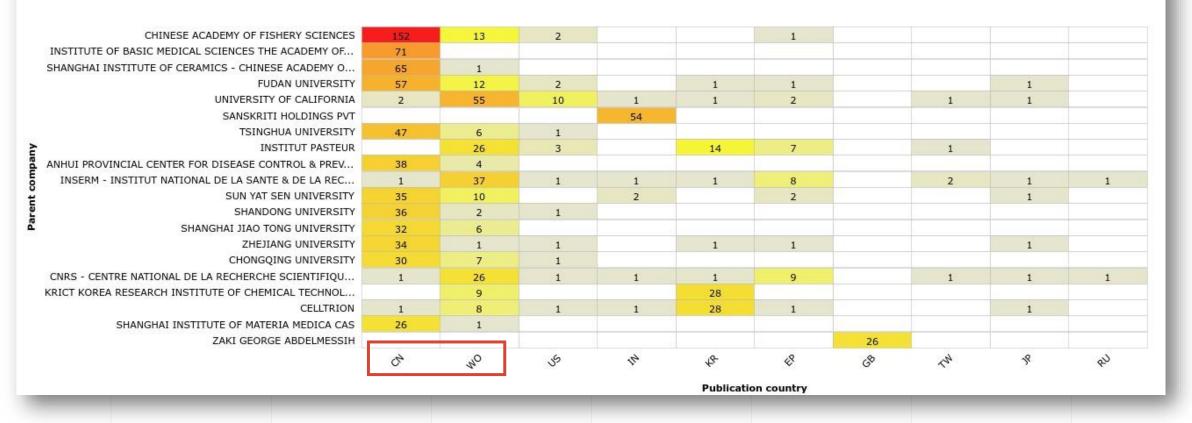


Looking at the parent companies can help to find the key player in the market. Here, the **Chinese Academy of Fishery** Science is a key player that does not appear in the first chart. Most of the players filing a large number of patents are universities.



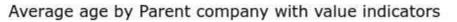
# Geographical coverage of key players

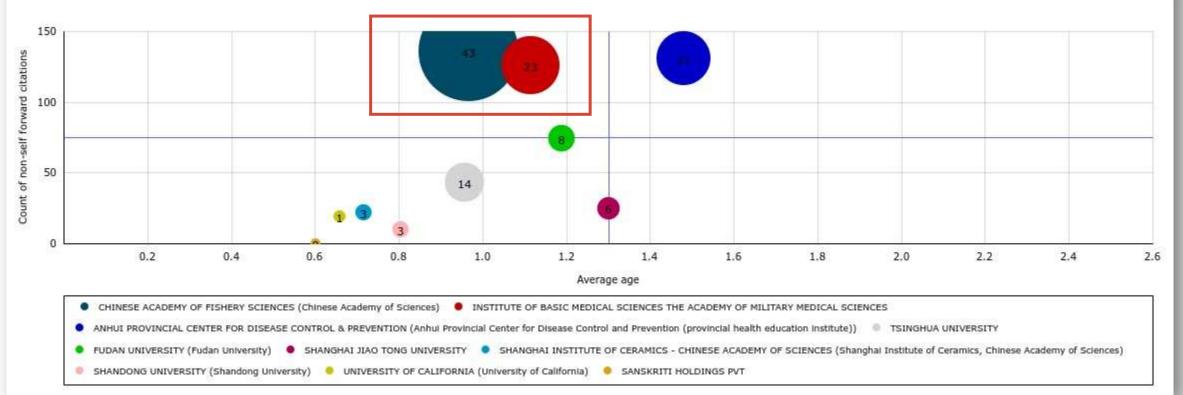
Patent families by Parent company / Publication country



The key players mainly publish their patents in China and the US.

# Key players Player indicators

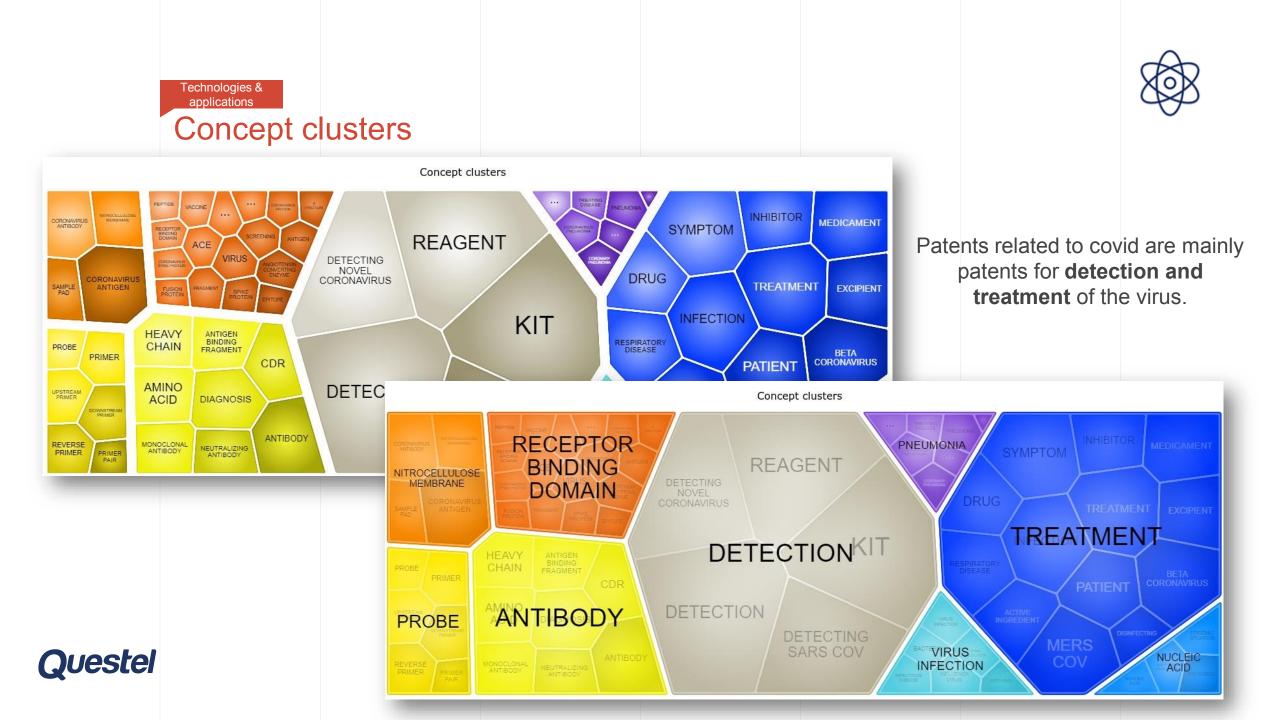




Chinese academy of Fishery Sciences and the Institute of Basic Medical Science have patents that are considered key players in the covid market as they are cited even though the portfolio is young.

### Technologies & applications

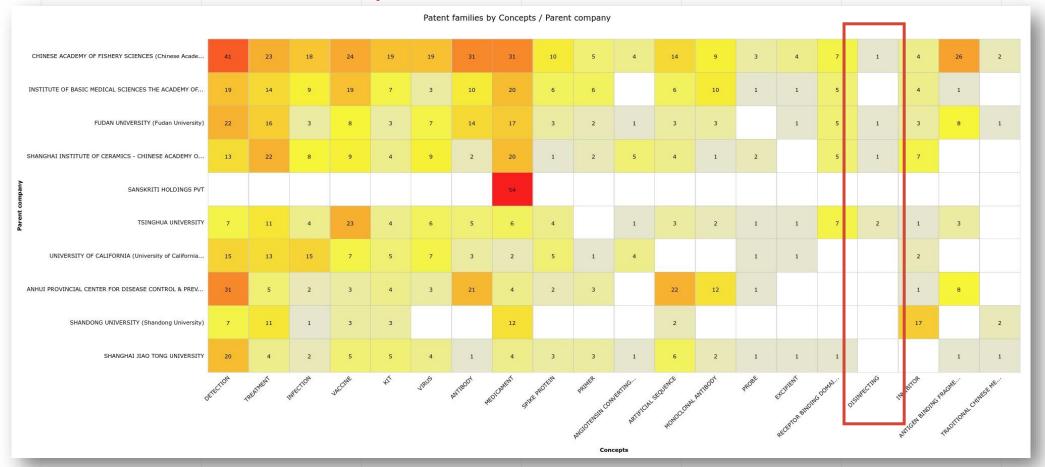
Concept clusters and landscape map



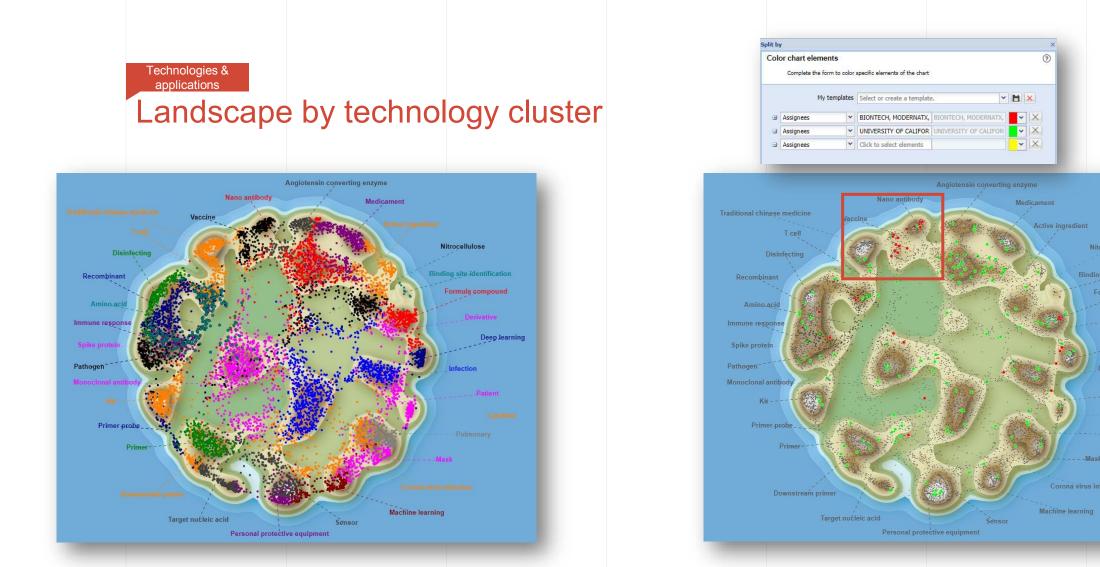


Technologies & applications

### Identification of white spaces



The main market players are mainly active in the field of **detection and processing**. With this type of chart, one can also identify potential white spaces where it would be interesting to invest. This is the case here, for example, with the **disinfection concept**.



We have grouped the main universities and large pharmaceutical companies (BioNTech, Pfizer, Moderna) into two groups. We can thus see that the companies are grouped in clusters mainly in the vaccine sector, while the universities are found in all fields.

Pulmonary



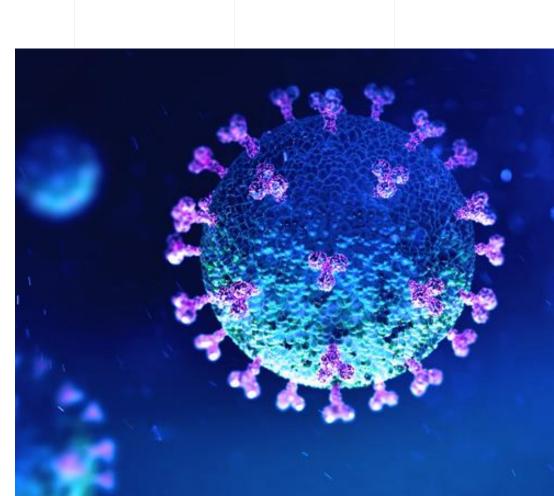
Conclusion

#### Conclusion

After 3 years of global pandemic, the development of new technologies is **not only focused on pharmaceuticals** but also on biotechnologies and computer sciences.

The actors in this field are very diverse, such as **universities**, **large companies** and **institutes** and are filing numerous patents.

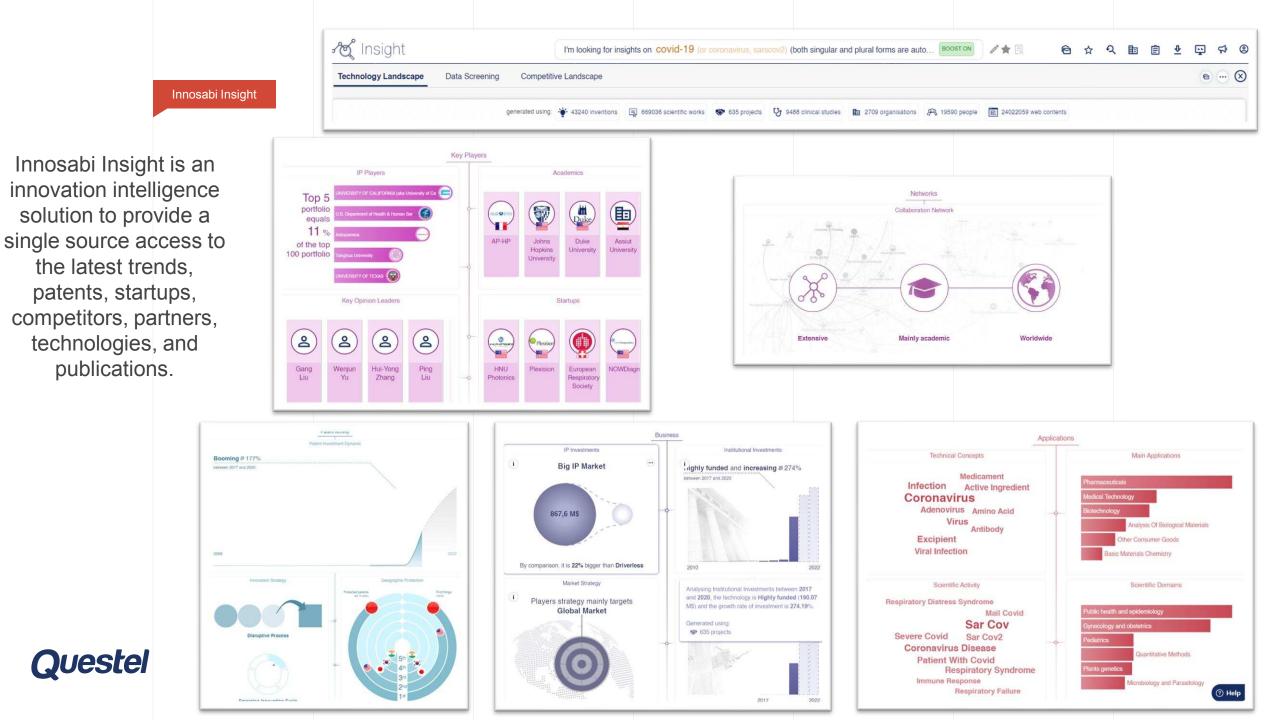
Although investment in innovation against covid-19 is very high, there is **still room for the development of new technologies** in this area.





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