

# Antiviral Patents – How prepared are we to combat novel viral diseases?





## Presenters



Gene Quinn President & CEO IPWatchdog, Inc.



Andrew Berks
Partner
Ostrolenk Faber LLP



William Mansfield
Head of Consulting & Customer
Success at PatentSight –
A LexisNexis Company

#### For Discussion

Today, like so much of the rest of the world, the United States is faced with many shortages due to the coronavirus pandemic, including personal protective equipment, basic medical supplies, and qualified medical staff. The lack of treatments or vaccine is a huge problem, as is the lack of a quick, inexpensive, reliable test for the virus. A test for the virus is a diagnostic method, and that is a big problem for U.S. patent laws because diagnostic methods are simply not patent eligible in the United States.

Many companies are working very hard to address this invisible threat. Johnson & Johnson is working with the government on a promising vaccine they hope to be able to rush to market for emergency use by early 2021, and Gilead has a very strong portfolio of antivirals, with Remdesivir leading the way. By analyzing both the quality and quantity of the patent portfolios of these leading manufacturers and researchers, it is possible to evaluate the companies and research institutes that are at the forefront of finding vaccines and cures for potentially deadly viral diseases.

During this webinar we will discuss: (1) The entire technology field and key players in antiviral market; (2) Review of selected companies with coronavirus related technologies; (3) Portfolio landscaping of global pharma leaders in this technology field; and (4) Poor policy decisions by the Supreme Court that have contributed to the United States and the world being in a precarious position to handle a global pandemic.

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ts as Manufacturers Guard Against

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- The People's Bank of China will use monetary tools to ensure banks have sufficient liquidity, while also implementing interest rate reforms
- Deposit benchmark rate will also be leveraged to help small businesses cope with impact of the pandemic

drugs and vaccines in development

Time for new pharmace

The pharmaceutical ind

innovation models

By DAMIAN GARDE @damiangarde / MARCH 2, 2020

Chinese firm. promising drug against the r

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by Angus Liu | Feb 12, 2020 10:28am

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Coronavirus: The Latest Problem Big

March 12, 2020 · 5:00 AM ET

A detailed gu

Pharma Won't Solve

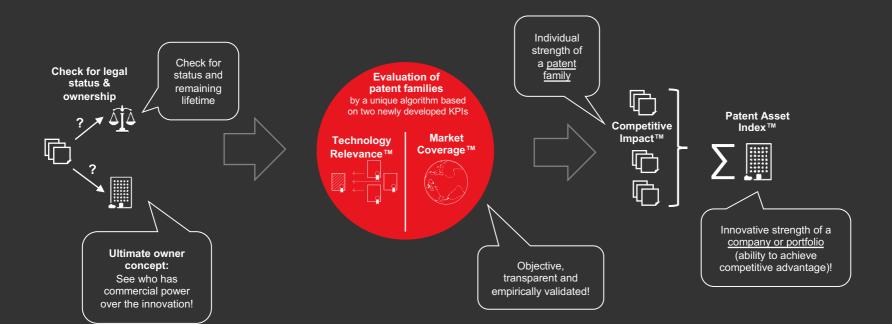
COMMENTARY Ellen 't Hoen Updated Feb. 7, 2020 7:48 am ET / Original Feb.

Photo by Tomohiro Ohsumi/Getty I

selling vaccines. The n

- How PatentSight metrics evaluate the portfolio strength
- Portfolio overview of technology field and key players in the field of antivirals
- Portfolio review for selected companies who have technologies related to Coronavirus

### Our Approach



#### Technology definition - antiviral technology

Main field of antiviral technology

IPC: A61K 31, A61K 39/00, A61K 39/395

AND

IPC: A61P 31/12

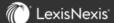
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IPC: A61P 35/00

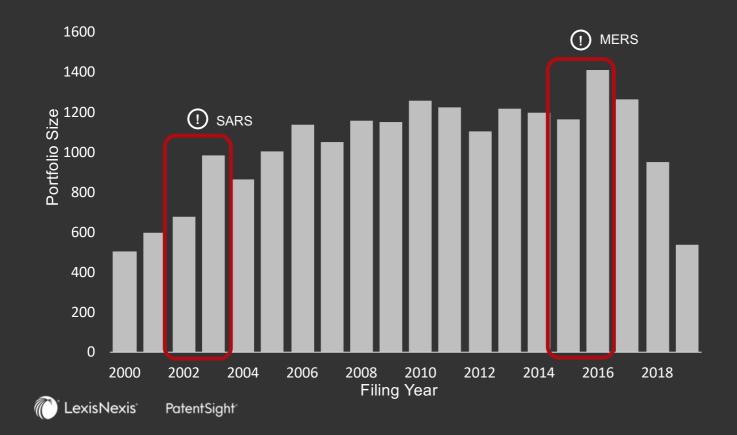
Sub-field : Corona related virus

AND

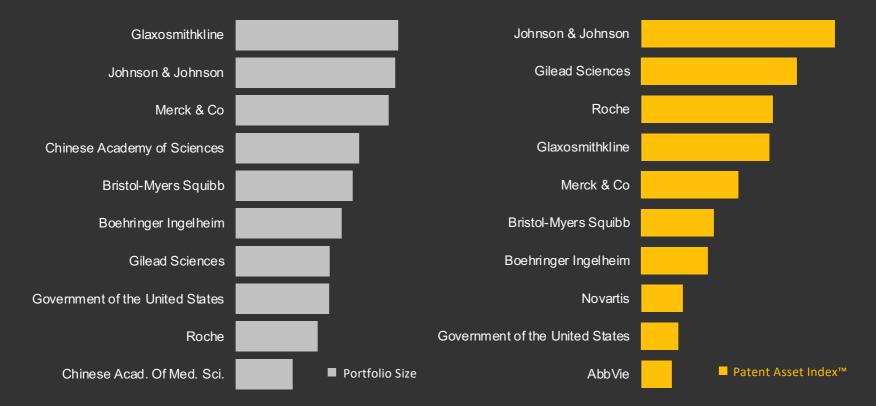
FULL TEXT(TAC): (CORONA\_VIRUS\* OR EBOLA\_VIRUS\* OR MARBURG\_VIRUS\* OR SARS\* OR MERS OR RESPIRATORY SYNCYTIAL VIRUS\* OR JUNIN VIRUS\* OR LASSA FEVER VIRUS\* OR NIPAH VIRUS\* OR HENDRA\* OR SARS-COV\* OR MERS-COV\* OR MERS\_VIRUS\* OR 2019-NCOV OR NUCLEOTIDE ANALOG\*)



## Filing trend in antiviral technology



### Who are the Top 10 players in antiviral technology field?





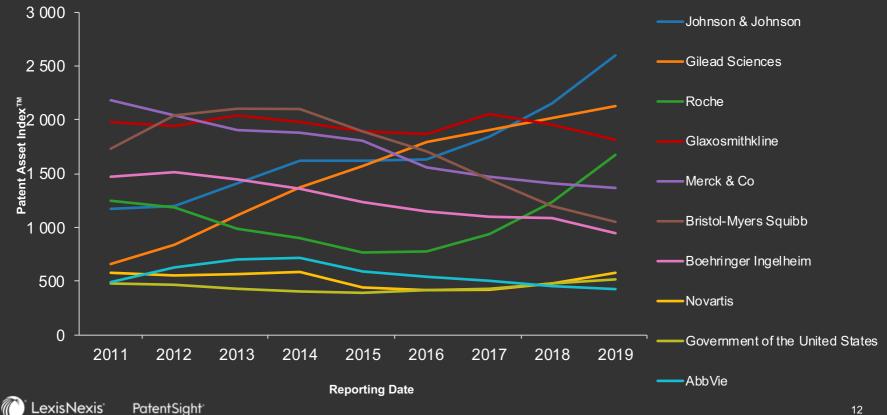
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#### Who are the Top 10 players in antiviral technology field?

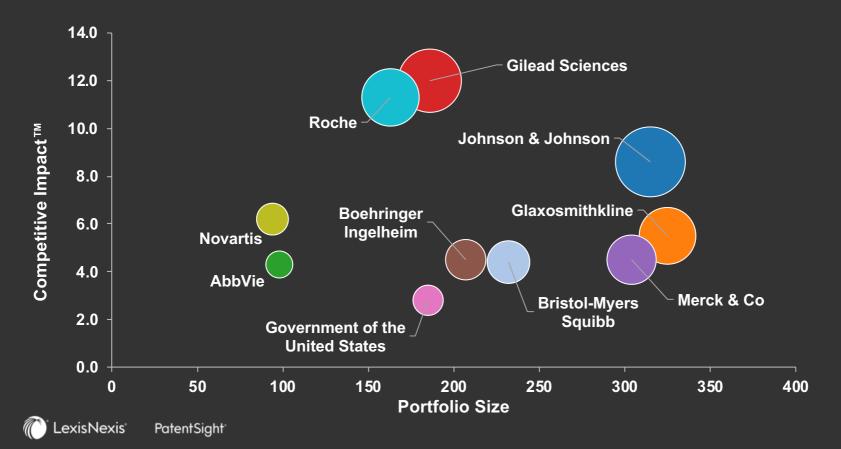
How many of these top 10 companies have more than 20% of their portfolio in antiviral patents?

None | Just 1 | 5 | All 10

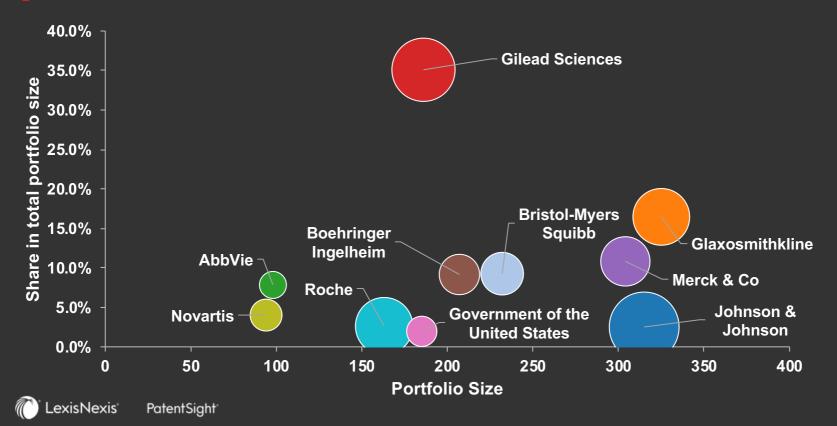
#### Development of portfolio strength of top 10 players



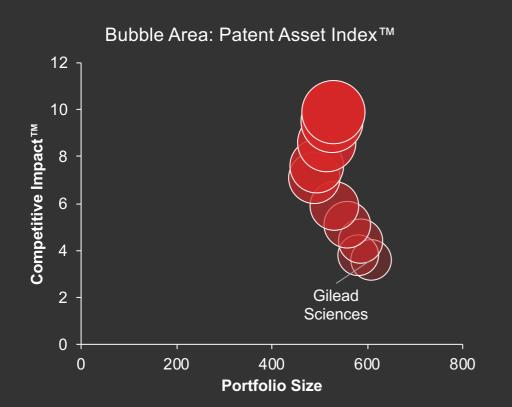
## Strategic Positioning of Top 10 Players

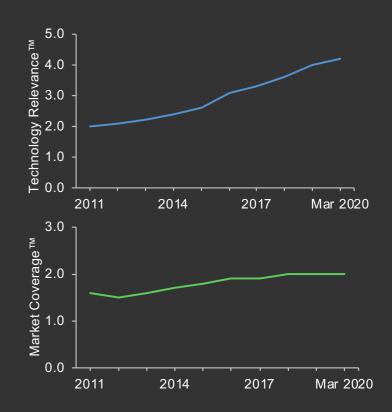


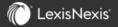
How much R&D effort do top players put into antiviral field from their entire portfolio?



### Who is Gilead Science?

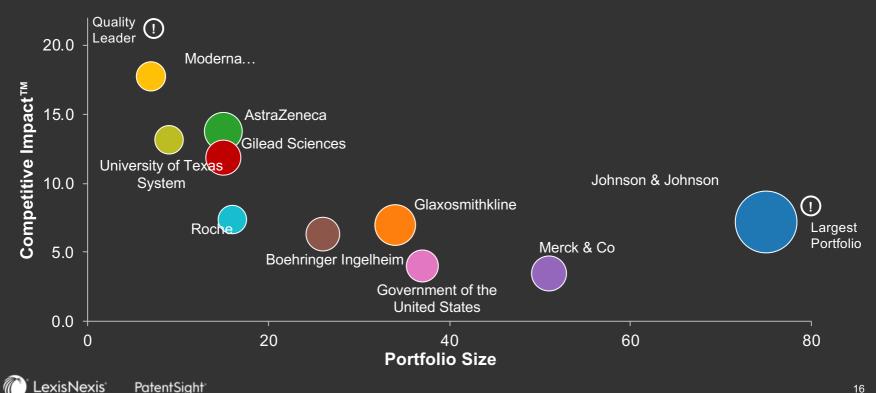






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#### Who has the highest average quality and the largest patent portfolio in the field of anti-corona related viral infection?



#### Portfolio of Gilead Science

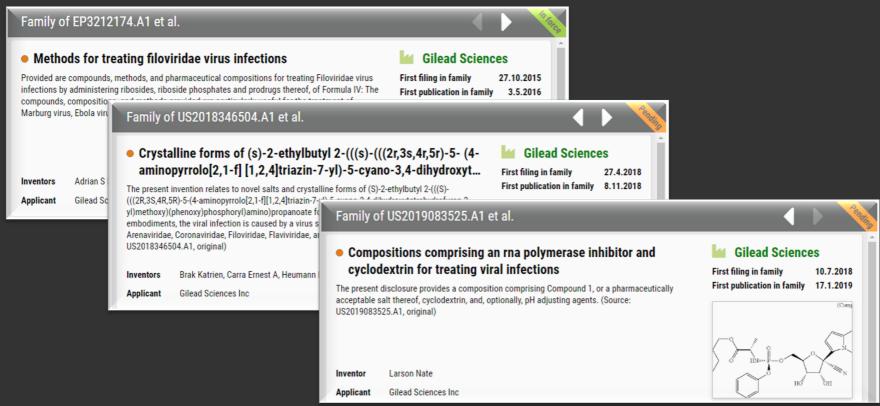
15 active patent families in corona related technology

Source: Remdesivir, Wikiepidia



Source: Reaxys

#### Portfolio of Gilead Science - Remdesivir



Andrew Berks
Partner
Ostrolenk Faber LLP

# How Misaligned Incentives Are Now Killing Us



By Andrew Berks & Gene Quinn







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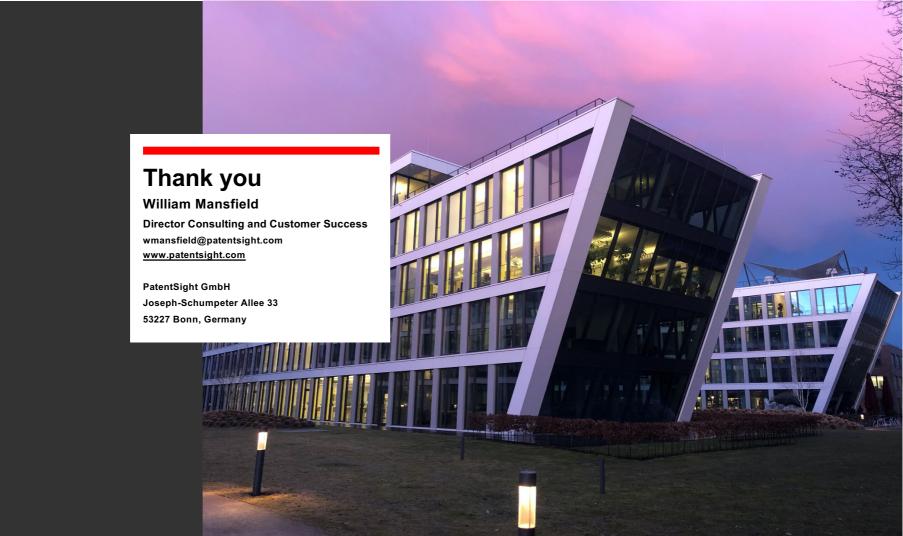
Facts matter. Policies matter. And thanks to the current coronavirus pandemic the world is learning first hand why the path chosen by the Supreme Court to shut down medical diagnostics in America was a mistake of epic proportions.

Today, like so much of the rest of the world, the United States is faced with many shortages due to the coronavirus pandemic, including personal protective equipment, basic medical supplies, and qualified medical staff. Of course, the lack of treatments or vaccine is a huge problem. Another secular problem is the lack of a quick, inexpensive, reliable test for the virus.



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