

# Why expert scientists did not fulfill prevention as early as possible against COVID-19?

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## ABSTRACT

It is sad to hear discussions among the president of the International Union of Immunological Societies and the presidents of 15 other national immunology societies<sup>1</sup>. Their actions against COVID-19 to individual government leaders were not swift. Inconsistent and slow prevention against COVID-19 may prolong the pandemic worldwide. The best surveillance should be implemented in the world as soon as possible.

## KEYWORDS

COVID-19; SARS; airborne; air travel; receptor ACE2; asymptomatic and presymptomatic

It is sad to hear discussions among the president of the International Union of Immunological Societies and the presidents of 15 other national immunology societies<sup>1</sup>. Their actions against COVID-19 to individual government leaders were not swift. **SARS-CoV-2** was named after **SARS** by WHO on **Feb. 11** 2020<sup>2</sup>. From Feb. 11, expert scientists who should know the past lessons from SARS 17 years ago and MERS 8 years ago respectively should disseminate that SARS-Cov-2 is an **airborne** infection virus which spreads **person to person**<sup>3,4</sup>. They should also disseminate how to effectively **prevent** the **airborne** infection transmission. They should also **ban air travel**<sup>4</sup>.

Hoffmann et al. discovered that SARS-CoV-2 uses the SARS-CoV **receptor ACE2** for host cell entry on **April 16** in 2020<sup>5</sup>.

For mitigating the COVID-19 pandemic, the expert scientists should disseminate to the world on **isolation** of COVID-19 **asymptomatic** and **presymptomatic** patients.

They should also disseminate there is still no vaccine for SARS and MERS despite dozens of attempts to develop them<sup>6</sup>. Since there is no vaccine for COVID-19, urgent isolation is an only strategy for mitigating the pandemic where the robust **surveillance** with **patient's detection** plays a key role.

Inconsistent and slow prevention against COVID-19 may prolong the pandemic worldwide. The best surveillance should be implemented in the world as soon as possible.

## References:

1. Osier, F., Ting, J.P.Y., Fraser, J. et al. The global response to the COVID-19 pandemic: how have immunology societies contributed? Nat Rev Immunol 20, 594–602 (2020). <https://doi.org/10.1038/s41577-020-00428-4>
2. [https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/naming-the-coronavirus-disease-\(covid-2019\)-and-the-virus-that-causes-it](https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/naming-the-coronavirus-disease-(covid-2019)-and-the-virus-that-causes-it)
3. [https://www.who.int/csr/resources/publications/ICHHC\\_booklet\\_FINAL.pdf](https://www.who.int/csr/resources/publications/ICHHC_booklet_FINAL.pdf)

4. [https://www.who.int/health-topics/severe-acute-respiratory-syndrome#tab=tab\\_1](https://www.who.int/health-topics/severe-acute-respiratory-syndrome#tab=tab_1)
5. Hoffmann et al., 2020, Cell,181,271–280, April 16, 2020  
<https://doi.org/10.1016/j.cell.2020.02.052>
6. <https://www.mountsinai.org/about/newsroom/2020/itn-there-was-no-vaccine-for-sars-or-mers-will-there-be-one-for-the-new-coronavirus-josephine-ma-and-simone-mccarthy>