

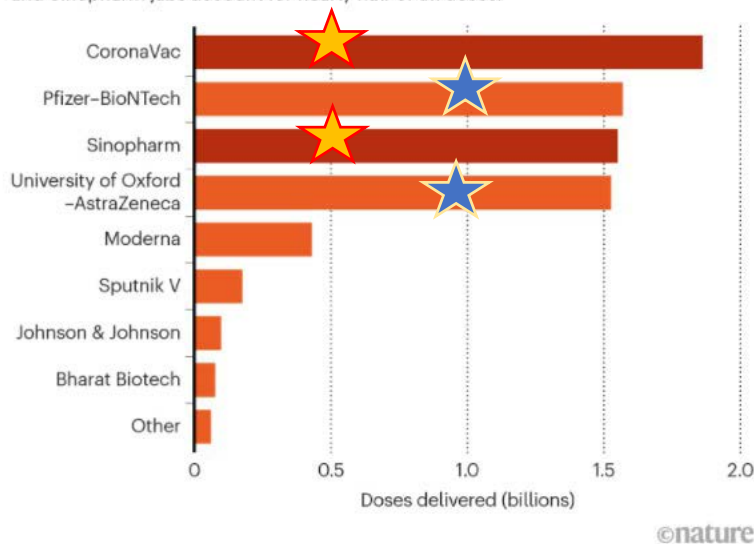
The politics /technology of the COVID-19 vaccine 新冠疫苗里面的政治和技术

关于新冠疫苗的政治化和民族化，下面这张图可以看到，中国产的是第一和第三种，西方产的是第二和第四种，中国疫苗被接种的数目最多，原因之一是中国人口体量大，原因之二是中国的疫苗对外出口量要大，除了美国和其他几个很少的几个国家没有用中国的疫苗之外。

两种新冠疫苗都跟基因的植入相关，两者都有无效感，美式疫苗激进，像是西医； Chinese vaccines are more conservative than the Western vaccines, like Chinese medicine. 本来就不能说中医不如西医好，再说目前不管是谁的新冠疫苗实际上都不能达到完全抵御的效果，还是要**主张全世界纯素，不要再虐待动物了**，从根本上解决问题。

THE RACE TO VACCINATE

Out of the eight vaccines that account for the vast majority of COVID-19 vaccine doses delivered globally, China's CoronaVac and Sinopharm jabs account for nearly half of all doses.



<https://www.nature.com/articles/d41586-021-02796-w>

下面主要是综述这两方面的内容，一个是民族和国家利益层面，另一方面是它的技术层面。

新冠疫苗的本意是出于技术本身，两者原理略有不同，共性都是要基因的重置改变，就是强度不同而已，西方的更激烈一点 (mRNA - Pfizer Inc.)

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背景

Four vaccines are currently approved for use in the EU: **Pfizer-BioNTech**, Moderna, AstraZeneca and Johnson & Johnson. Another four are under "rolling review" for possible approval: Russia's Sputnik, **China's Sinovac**, Germany's CureVac and Novavax of the United States. (straitstimes.com/July 01, 2021) 。

疫苗上的政治化集团

中国，以国药中生公司为代表，灭活疫苗，包括国药中生北京公司、国药中生武汉公司、北京科兴中维公司，Sinovac COVID-19 vaccine，北京科兴中维新冠疫苗；Sinopharm COVID-19 vaccine (Beijing)；国药北京所新冠疫苗 Sinopharm COVID-19 vaccine；Wuhan) 国药中生武汉公司新型冠状病毒疫苗

外国，以辉瑞公司为代表，辉瑞公司 (Pfizer Inc.) 的 BNT162, RNA 疫苗或 mRNA(信使 RNA)疫苗是一种新型疫苗，它将病毒 mRNA 片段插入人体细胞中，通过重编程产生病原体抗原(如针刺蛋白或癌症抗原)，然后激发针对病原体的适应性免疫反应，与传统蛋白疫苗相比，RNA 疫苗的优势在于生产速度快、成本低，可诱导细胞免疫以及体液免疫，需要冷链配送和低温储存。

美国研制的疫苗 mRNA

mRNA 旨在将抗原的遗传信息引入人体，mRNA 疫苗易大规模生产等优势。辉瑞公司 (Pfizer Inc.) 的 BNT162b2 疫苗需要在超低温环境中 (零下 70°C) 储存，在 2~8°C 只能存储 24 小时，技术发明人罗伯特 马龙对于 mRNA 有他自己的客观性的评论，但是受到主体媒体的剧烈反对，因为对他们的商业利益有巨大损害，<https://zhuanlan.zhihu.com/p/446442807>,

(我的理解，因为牵涉到 DNA 遗传信息植入技术，这种药物的快速性比较好，但是，mRNA 技术有它潜在的危险性，这好比西药和中药，比较中国的疫苗，mRNA 更要有西方的特色，)

中国的疫苗 China's CoronaVac

1. 《Nature》关于中国疫苗的看法

2021 年 10 月 14 日登载关于中国疫苗的学术文章，
14 October 2021 - China's CoronaVac <https://www.nature.com/articles/d41586-021-02796-w>

(作者评论，Nature 的文章，貌似有一些学术威慑力，对于中国的疫苗具有一些微词，认为它的有效性可能没有那么好，不过这就像中药和西药，中药没有副作用，有长期性，需要有短期性，

但是有副作用，根据目前的疗效来看，两者似乎都有无力的地方，还不如找一个保守性的疗法，也就是中医的方式)

Billions of shots of China's CoronaVac and Sinopharm vaccines have been given globally, but studies have questioned the length of protection they offer.

A number of countries are already offering third doses to all adults or are trying mix-and-match approaches. Some experts are even questioning whether China's jabs — based on inactivated virus — should continue to be used at all when other options are available.

*(In general, what I understand is that the **Chinese vaccines are more conservative** than the Western vaccines, in other words, safer... 两者都跟基因的植入相关，但是美式的疫苗做的激进一些，过分一些)*

Both the Chinese vaccines are **inactivated vaccines**, which use killed SARS-CoV-2 virus. Researchers say this type of vaccine seems to be less potent because it triggers an immune response against many viral proteins. By contrast, mRNA and viral-vector vaccines target the response to the **spike protein**, which is what the virus uses to enter human cells.

2. 美国媒体对中国疫苗的看法

CNN news December 14, 2021 - China vs Western mRNA
<https://edition.cnn.com/2021/12/13/china/china-western-mrna-vaccine-mic-intl-hnk/index.html>

(美国媒体的报道，是有点埋怨中国不是非常认可西方的解决方法，不过这有一点各说各话，中国对引入西方的 mRNA 病毒免疫理论持保留态度，这是正确的，本来就不能说中医不如西医好，再说西医也不是完全有效，目前世界范围的新冠疫苗实际上都不

能达到完全抵御的效果，还是要主张全世界吃纯素，从根本上解决问题，所以这篇CNN文章有它一定的偏见性)

China was ready to approve Western mRNA vaccines months ago. **Why is it still holding off?** (下面就是 CNN 文章对中国为什么不用美国疫苗的微词)

The limited protection provided by Chinese vaccines is far from enough to satisfy China's ambitious goal of keeping Covid infection at zero within its borders. Over the past few months, authorities have resorted to increasingly stringent measures to curb local outbreaks -- often at great economic cost and disruption to daily lives.

Over the weekend, **Zhong Nanshan**, 钟南山, a top Chinese respiratory disease expert and government adviser, urged China to increase exchanges and cooperation in vaccine development with other countries.

"We need to learn about the good things in other countries, such as mRNA (vaccines)," Zhong said at a forum in the southern city of Guangzhou Saturday.

"They've spent years on the research and managed to develop the world's first mRNA (vaccine) in just a few months...We need to learn from their technology in this area," he said.

【The Covid19 is a collateral damage】 . That is, not the person who died out of the Covid19 but out of some other collateral reasons, Such that the person is just too old to stand for the Covid19 attack.

【About the regulation relief in 20220222】 . In China Covid 19 is highly and tightly controlled。 Many people say China right now is the safest land in this planet. In America in Europe Covid19 is just lasting too long. The government try very hard to keep the country safe, but at this moment they really cannot save the country in this way. So they just let it set everyone free to keep the protesters and keep the government an easy life. Everylife is just depending on themself and on god.