

# Racing against the US, China is developing 9 types of Covid-19 vaccine

The race for the development of the Covid-19 vaccine is taking place in many countries. The United States has begun clinical trials and China is closely behind.

On March 17, vaccine maker CanSino Biologics in Tianjin City, China, announced the search for volunteers who participated in a six-month clinical trial of the vaccines they partnered with the Science Institute. Chinese military medical modulation.

"The vaccine does not contain germs, is highly safe and stable, and requires only one injection," the Hubei Centers for Disease Control and Prevention said in a volunteer search notice.

The announcement came two days after the first volunteers were vaccinated by the National Institutes of Health funding Moderna, a biotechnology start-up.

The company uses mRNA technology to copy the virus's genetic code, not SARS-CoV-2 virus. So far, no vaccine using mRNA technology has been licensed for human use.

China also has a vaccine using mRNA technology, jointly prepared by the China Centers for Disease Control and Prevention and Tongji University in Shanghai. The vaccine is currently in animal testing and is expected to be clinically tested in humans in mid-April.

Prepared by CanSino and the Chinese Academy of Military Sciences, the vaccine is leading the way in nine vaccines developed in China. All are in the process of completing pre-clinical trial research and will be clinically tested in April, said Wang Junzhi, an expert in biological product quality control and an Institute scholar. Chinese social science, said.

"The research and development of vaccines for the new corona virus are generally the most progressive in the world," Wang said at a press conference in Beijing on March 17. "We will not be slower than other countries," Wang said.

The world is hoping to get vaccines soon, especially for vulnerable groups like the elderly, in the absence of a cure or a vaccine that is bringing the world close to standing still.

Scientists around the world are conducting many experiments. The US is believed to have tried to buy a vaccine manufactured in Germany for exclusive use in the US, and the German government is believed to have provided financial support to businesses producing the vaccine. sold in the german market.

'Vaccines are the most effective medical means to prevent and control disease because it can stop the spread of the virus,' said Lei Chaozi, director of science and technology of China's Ministry of Education. know.

'Vaccines also play an important role in stabilizing the economy and helping bring the country back to normal once work and production are restored,' Mr. Lei said.

When visiting the Chinese Academy of Military Science 2 weeks ago, Chinese President Xi Jinping called for a quick preparation of vaccines and medicines.

About 1,000 scientists are involved in developing vaccines, and nine have been prepared using five different methods, including inactivated vaccines, vector vaccines and gene vaccines.

Wang said vaccines need to meet relevant technical standards and regulations as well as World Health Organization requirements before being put into clinical trials.

Vaccines from CanSino and Chinese military medical researchers are the ones that use gene technology. The corona virus mutates and attaches to the surface of a human body's cell to attack the cell. In theory, vaccines can create such an attack to activate the immune mechanisms of the human body.

According to the Hubei Centers for Disease Control and Prevention, volunteers must be between 18 and 60 years old and have no history of corona virus infection.

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