

Science explores how the flu virus changes so rapidly

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Before, because influenza viruses change rapidly, modern medicine needs to design and rebuild flu vaccines every year.

Recently, MIT researchers have discovered that in order to rapidly change, the flu virus silently uses a group of proteins called chaperones in infected cells in the victim's body, possibly human or animal.



Therefore, blocking flu viruses by using host cell chaperones can help prevent the development of influenza viruses in combination with the resistance of existing drugs and vaccines.

"It's easy to create an antiviral drug, or an antibody that prevents the virus from spreading, but it's hard to resist the virus if it has a mutation mechanism, the resistance is much worse than that head" - Senior research author Matthew Shoulders, associate professor of chemistry said in a press release of MIT Institute.

"Our data suggests that, at some point in the future, suppliers, drug manufacturers, and vaccines can limit the ability of viruses to develop and even kill viruses quickly before they become resistant " . He said.

This study is published in eLife magazine.

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