

# Realization of a safe, secured, and comfortable town by removing a slight amount of hazardous substances hiding in living environments

**Development of innovative prevention system to neutralize influenza virus in an atmosphere**

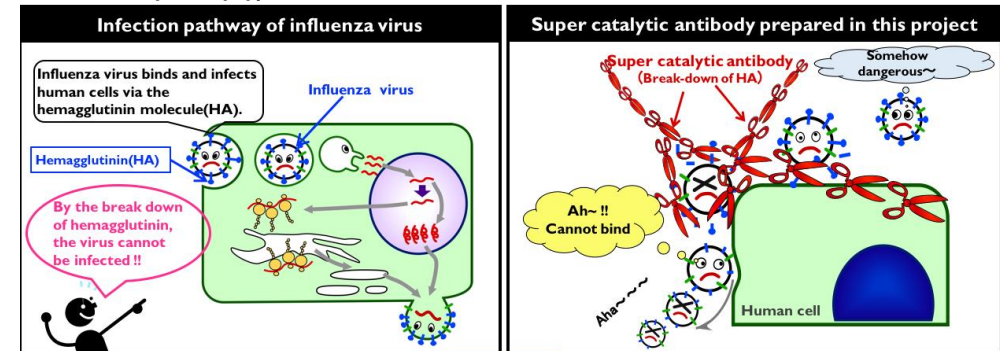
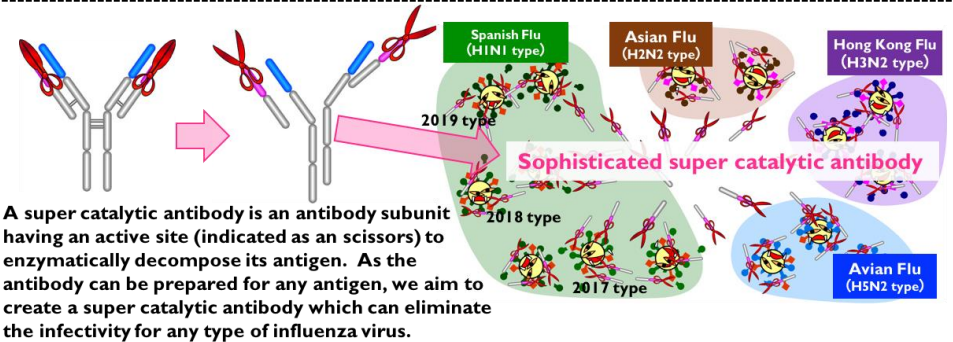
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## Summary :

“Super catalytic antibody” is an antibody chain having an active site to enzymatically decompose its antigen. As influenza viruses infect human cells via the hemagglutinin (HA) molecule, we will challenge the generation of a “highly sophisticated super catalytic antibody” that can capture influenza viruses in an atmosphere and degrade the HA molecule to eliminate the infectious ability. However, there are 18 types of HA in influenza virus and small mutations occur continuously. Therefore, we will attain following two items, (1) making a super catalytic antibody that targets the conserved region in HA (a common part of HA sequence in many types), and (2) realizing the neutralization of influenza virus in the atmosphere by using the above super catalytic which can be prepared by the conversion from the monoclonal antibody or activated using an algorithm we have developed.



By applying to “spray”, “humidifier type spray device”, “application to wallpaper”, a creation of a safe and secure living space can be attained.